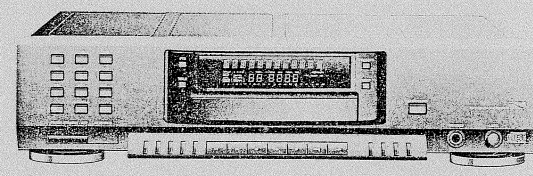
Compact disc player CD940/00S/05S/10S

Service
Service
Service



ServiceManual

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PHILIPS

PCS 60 092

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TECHNICAL SPECIFICATIONS

General

1.Mains voltage	/00S	:	230V (+6 -10%)
	/05S/10S	:	240V (±10%)
2.Mains frequency		:	50-60 Hz
3.Mains voltage selection		:	See circuit diagram Power Supply
4.Power consumption mains,operated		:	10W

External RC-5 connection

Specification:	V-in Low	:	from -2,0V to +1,6V
	V-in High	:	from +3V to +7,5V
	R-in	:	from 47kΩ to 68kΩ

Line output

1. Number of channels	:	2
2. Output voltage	:	2 Vrms ± 1,5dB
3. Unbalance left-right	:	max. 0,6dB
4. Output resistance	:	200Ω
5. Amplitude linearity	:	max. ± 0,2dB from 20 Hz to 20 kHz
6. Phase non-linearity	:	max. ± 2° from 20 Hz to 20 kHz
7. Signal to noise ratio	:	min. 95dB from 20 Hz to 20 kHz
8. Dynamic range (-60dB)	:	min. 92dB from 20 Hz to 20 kHz
9. Total harmonic distortion + noise	:	min. 88dB from 20 Hz to 20 kHz
10. Intermodulation distortion	:	min. 88dB from 20 Hz to 20 kHz
11. Out-band attenuation	:	min. 55dB (above 24,2 kHz)
12. Channel separation	:	min. 100dB (1 kHz)
13. Automatic switched de-emphasis with time constants	:	15/50 µs
14. Non-linearity on -90dB	:	± 2dB

Variable headphone

1. Output voltage	:	max. 5 Vrms ± 2dB
2. Unbalance left-right	:	max. ± 0,6dB
3. Output resistance	:	120Ω
4. Load impedance range	:	32Ω to 600Ω load
5. Output power	:	0 to 50 mW into 30Ω load
	:	0 to 90 mW into 120Ω load
	:	0 to 50 mW into 600Ω load
Audio specs in case of 600Ω load at 4 Vrms voltage output		
6. Signal to noise ratio	:	min 80 dB
7. Dynamic range	:	min 75 dB (20 Hz -20 kHz)
8. Total harmonic distortion	:	min 70 dB (20 Hz - 20 kHz)
9. Intermodulation distortion	:	min 67 dB (20 Hz - 20 kHz)
10. Channel separation	:	min 70 dB (1 kHz)
	:	min 65 dB (31,5 Hz - 16 kHz)

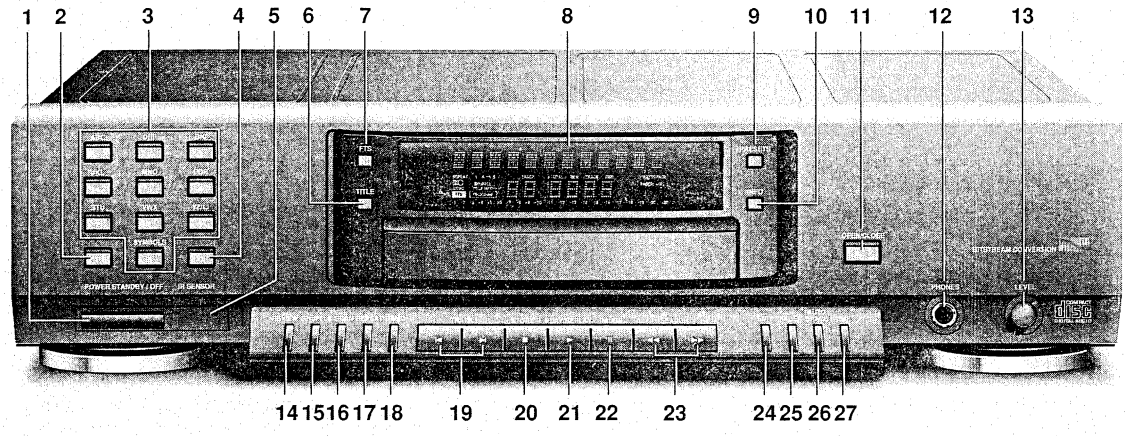
Dimensions and weight

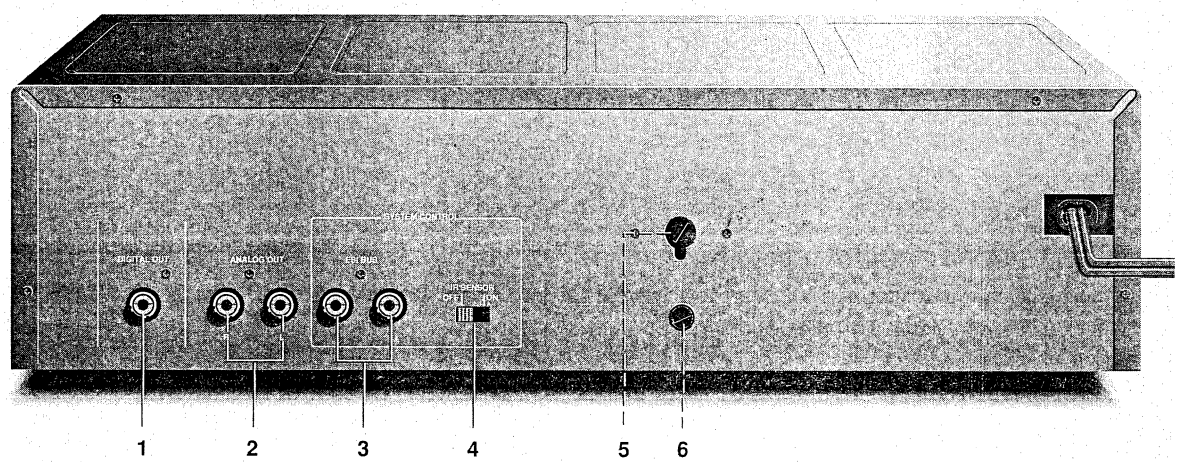
1. Apparatus tray closed	:	WxDxH 435 x 300 x 90/106 mm
2. Apparatus tray open	:	WxDxH 435 x 445 x 90/106 mm
3. Weight	:	4 kg

Optical read-out system

1.Laser type	:	Semiconductor AlGaAs
2.Wavelength	:	780 nm ± 20 nm
3.Light output (c.w.)	:	max. 0,5 mW

CONTROLS & CONNECTIONS





CONTROLS

Indication on App.	Indication in diagram
1. POWER ON/OFF	SK-1
2. P(rogramme)	1419
3. Digit/alphabet keys	1410,1411,1412,1413,1414, 1415,1416,1417,1418,1420
3. C(ancel)	1421
5. IR SENSOR	1451
6. TITLE	1423
7. FTS	1422
8. Display	1402
9. PRESETS	1424
10. INFO	1425
11. OPEN/CLOSE	1442
12. PHONES	BU-5
13. LEVEL	3381
14. REVIEW	1426
15. SHUFFLE	1427
16. SCAN	1428
17. REPEAT	1429
18. DEMO	1430
19. < TRACK >	1431 1432
20. STOP/CP	1423
21. PLAY/REPLAY	1434
22. PAUSE	1435
23. << SEARCH >>	1436 1437
24. EDIT	1438
25. FADER	1439
26. AUTO SPACE	1440
27. TIME	1441

CONNECTIONS

Indication on App.	Indication in diagram
1. DIGITAL OUT	BU-4
2. ANALOG OUT	BU-2
3. ESI BUS	BU-3
4. IR SENSOR ON OFF	SK-2
5. Voltage selector(not all versions)	
6. Mains fuse holder(not all versions)	

(GB) WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.

ESD

(NL) WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

(F) ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

(D) WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).
Unsorgfältige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern.
Sorgen sie dafür, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.
halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

(I) AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

(GB)
Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

(NL)
Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

(D)
Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

(I)
Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambiago identici a quelli specificati.

(F)
Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

S Varning!

Osynlig laserstrålning när apparaten är öppnad och spärrenär urkopplad.
Betrakta ej strålen.

SF Varo!

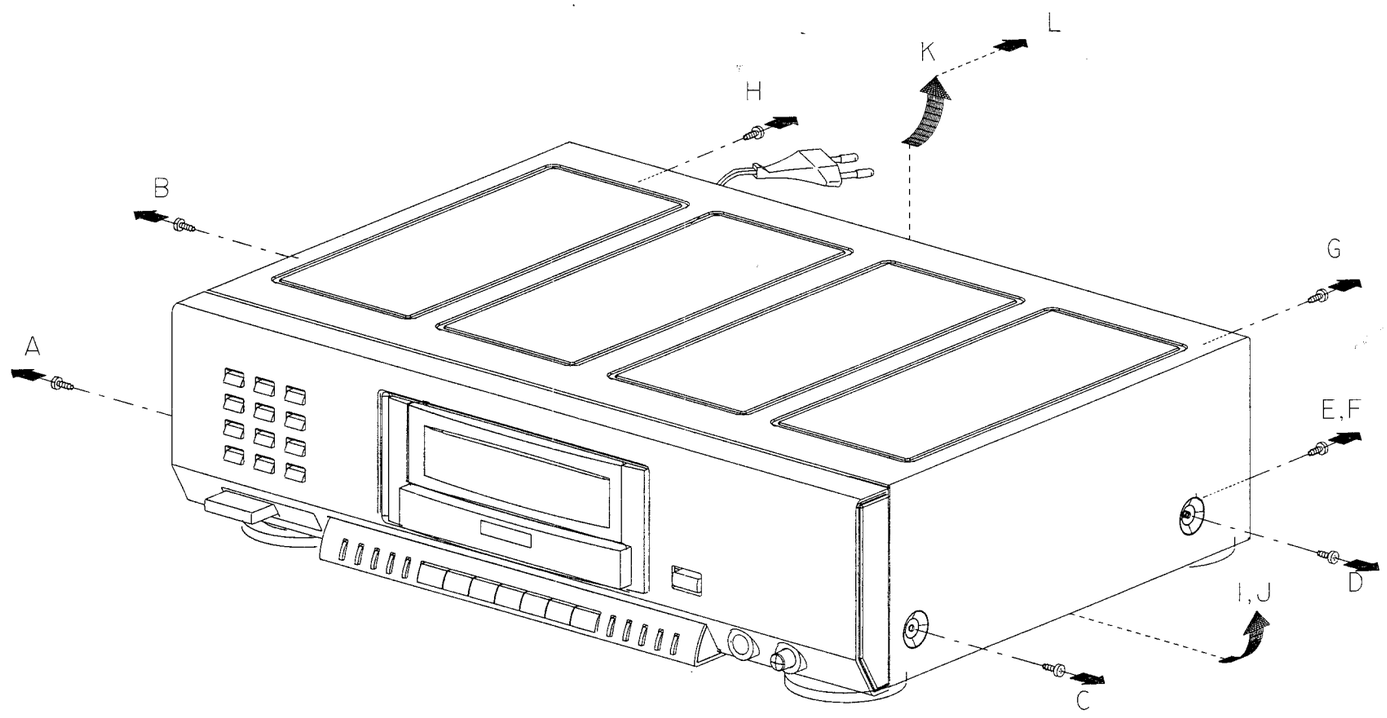
Avatussa laitteessa ja suojalukituksen ohitettaessa olet alttiina näkymättömälle laserisäteilylle.Älä katso säteeseen!

DK Advarsel!

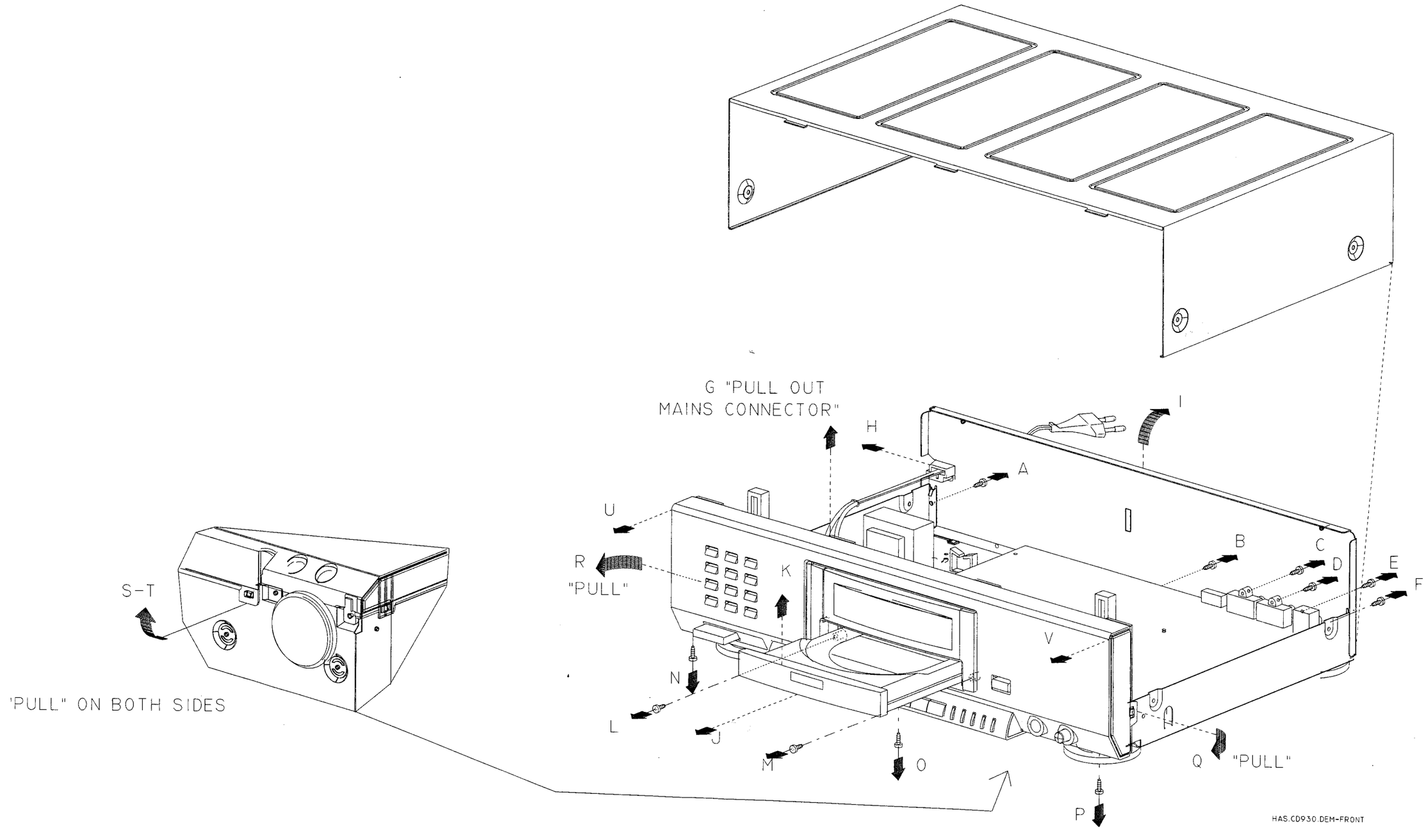
Usynlig laserstråling ved åbning. Undgå unsaettelse for stråling.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne"

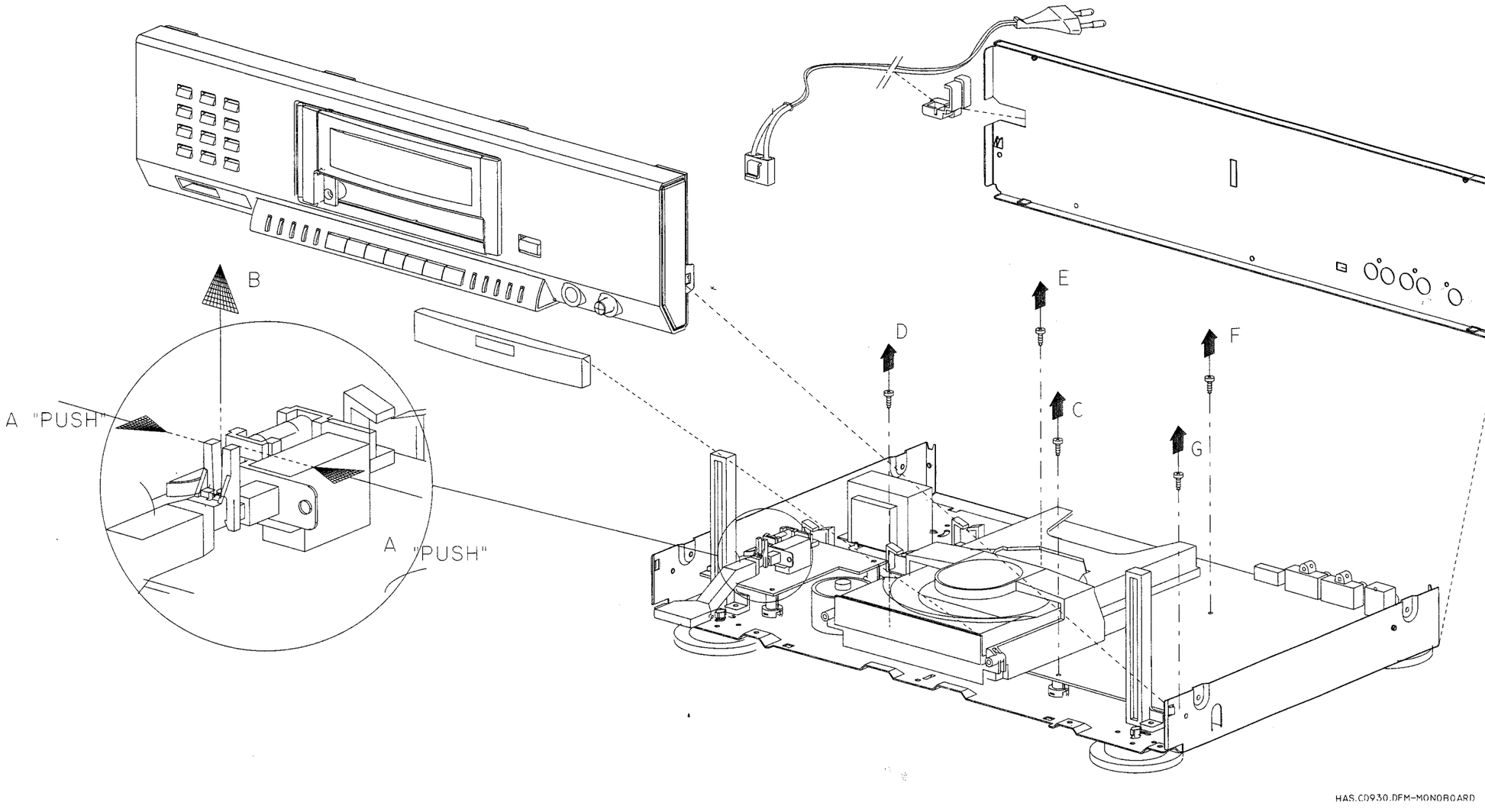
DISMANTLING INSTRUCTIONS
DEMOUNTING OF COVER



DEMOUNTING OF BACKPLATE AND FRONT

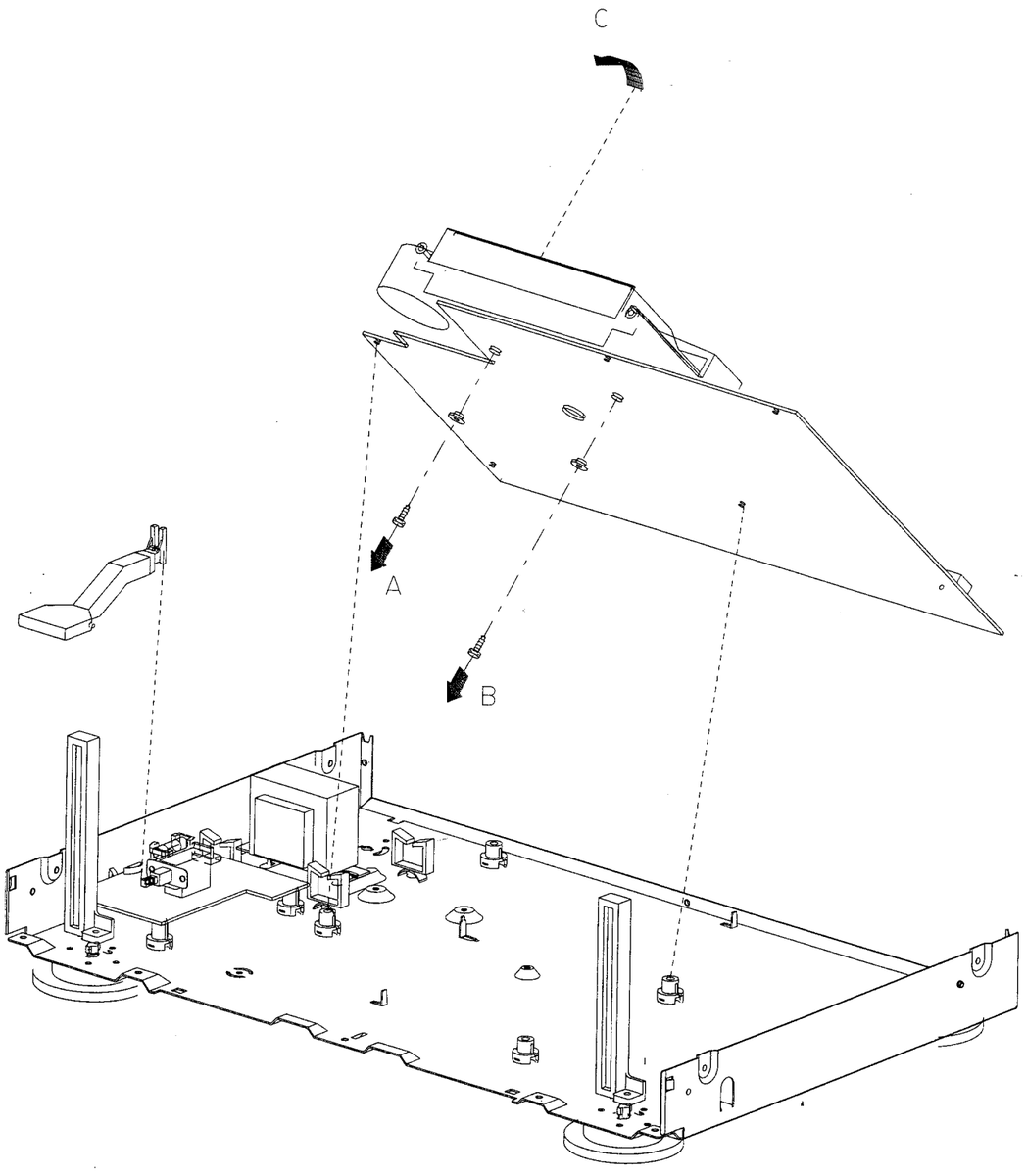


DEMOUNTING OF POWERROD AND MONOBOARD



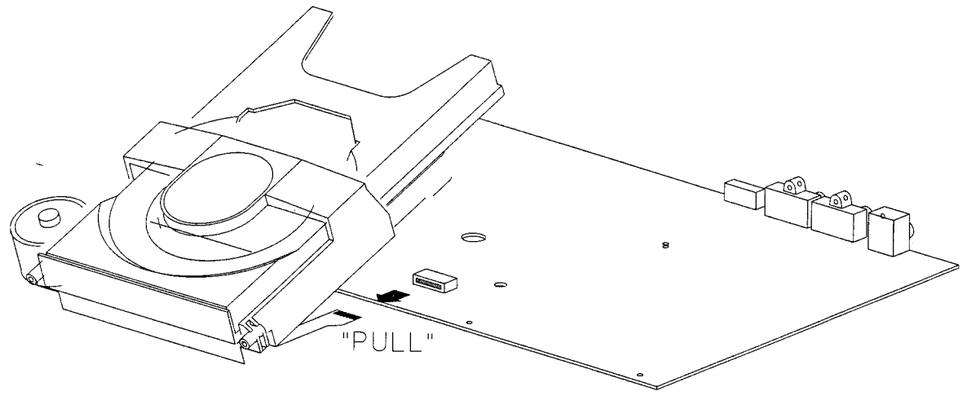
HAS.CD930.DFM-MONOBOARD

DEMOUNTING OF LOADER



HAS.CD930.DEM-LOADING

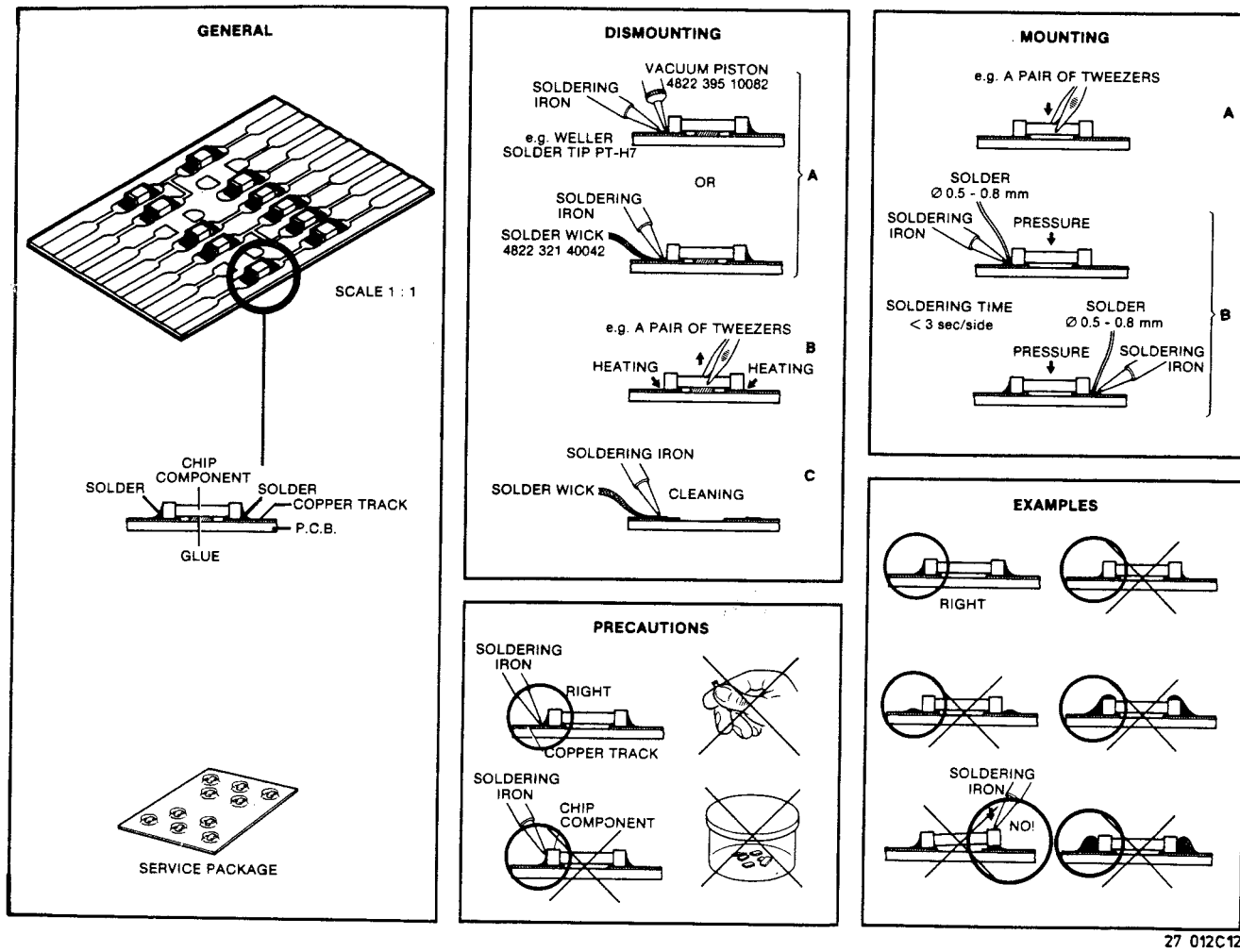
REMOVING FLEX FROM CONNECTOR



HAS.CD930.DEM-FLEX

SERVICING HINTS

In the set chip components have been applied. For disassembly and assembly of chip components see the figure below.



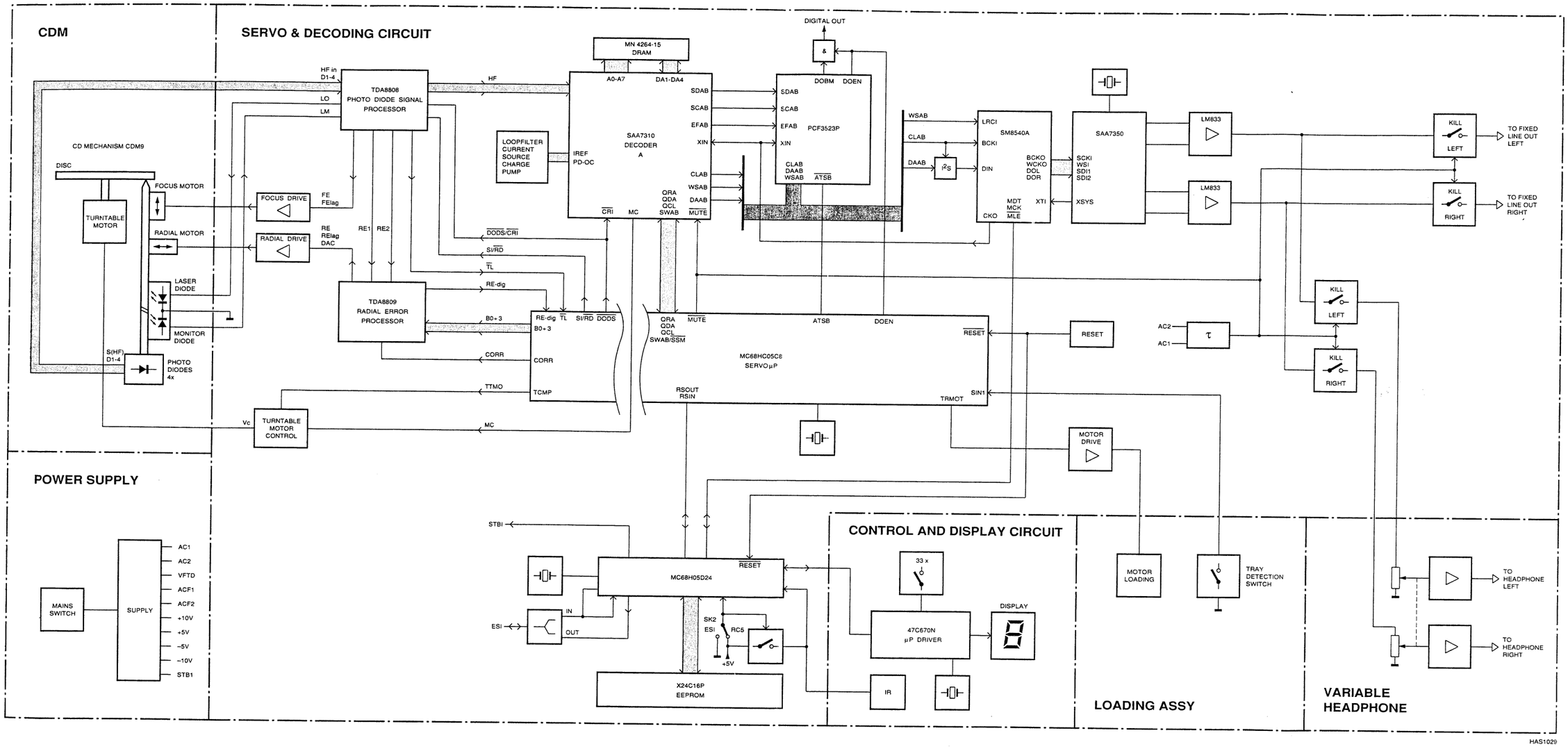
27 012C12

SERVICE TOOLS

Audio signal disc	4822 397 30184
Disc without errors (test disc 5) + disc with DO errors, black spots and fingerprints (test disc 5A	4822 397 30096
Disc (65 min 1kHz)without pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
Service cable (4p)	4822 321 21284
Service flexfoil (14p)	4822 322 40066
Service connector (14p)	4822 267 50676
Green LED CQY G11	5322 130 32182
Infra red remote control e.g.	4822 218 10324

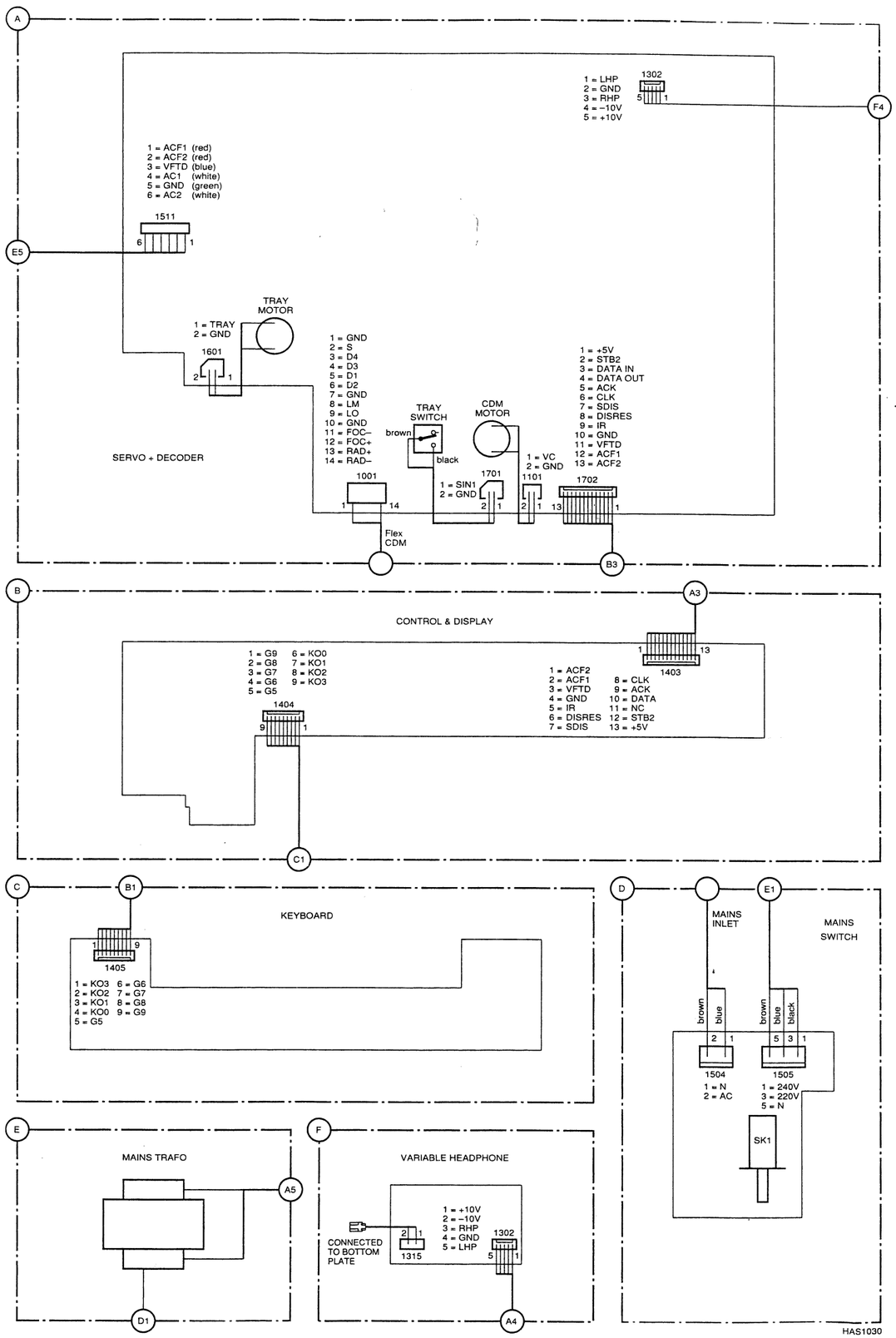
AGC - Automatic Gain Control
AM - Additional mute
ATSB - Attenuation of Audio level in Search position
ATT - Attenuation
B0-B3 - Control bits for radial circuit
BEQ - Equalizer reference current input
BCKI - Input data bit clock
BCKO - Output data bit clock
BGC - DC and LF gain control reference input
BSW - Bandwidth switch turntable motor circuit
CD ROM - Digital Data information in disc signal switch
CEFM - Clock Eight-to-Fourteen Modulator
CKO - Oscillator output clock
CKSL - Clock frequency
CLAB - Clock signal Detector-A to Filter-B
CLBD - Clock signal Filter-B to DAC
CLI - I²S serial bit clock input
CORR - 1/2 bit DAC
Cosc1 - Capacitor wobble oscillator
Cosc2 - Capacitor wobble oscillator
CREF - Reference current
CRI - Counter Reset Inhibit
DAAB - Data signal Decoder-A to Filter-B
DABD - Data signal Filter-B to DAC
DAI - I²S serial data input
DAO - I²S serial data output
DEC - Decoupling input internal bypass
DEEM - Deemphasis
DET - HF detector voltage input
DIN - Input data
DIV4 - Divide by 4 input
DMUTE - Digital mute
DOBM - Digital out signal
DOEN - Digital out enable
DODS - Drop out detector suppression
D1-4 - Photodiode currents
DOL - Left channel data output
DOR - Right channel data output
EFAB - Error flag Decoder-A to Filter-B
FBL+ - - Feedback for left positive (negative) switched capacitor integrator
FBR+ - - Feedback for right positive (negative) switched capacitor integrator
FE - Focus error signal
FE lag - Focus error signal for LAG network
HF - HF output for DEMOD
HFD - HF detector output for DEMOD
HF-in - HF current input to HF amplifier
HF-out - HF amplifier and equalizer voltage output
IDF1-3 - Input data format
INTL+ - - Output from left positive (negative) switched capacitor integrator
INTR+ - - Output from right positive (negative) switched capacitor integrator
LM - Laser monitor diode input
LO - Laser amplifier current output
LRCI - Input data word clock
MC - Motor control signal
MCES - Motor speed control
MCK - Mode set bit clock
MDT - Mode set serial data input
MLE - Mode set latch enable
MUSB - Soft mute signal
MUTE - Mute signal
OALO - Operational ampl. left output
OARO - Operational ampl. right output
Offset IN- - Offset control input
Offset OUT - Offset control output
PD/OC - Phase detector - oscillator control
PLLH - PLL on hold reset
QCL - Q-channel clock signal
0QDA - Q-channel data signal
QRA - Q-channel request aknowledge
RADout - Output of RE2-RE1 input
RE - Radial errer signal (Amplified RE2-RE1 currents)
Rosc - Resistor wobble oscillator
Rwob - Wobble generator input
RE1 - Radial error signal 1
RE2 - Radial error signal 2
RE dig - Radial error digital
RE lag - Radial error signal for LAG network
RST - Device reset
SBD - Single Bit Deviation correction
Sc - Starting up capacitor input
SCAB - Subcode clock Decoder-A to Filter-B
SCKI - Bit clock input for serial input interface
SDAB - Subcode data Decoder-A to Filter-B
SDI1-2 - Serial data input
SIN - Tray switch
Si/RD - On/off control for laser supply and focus circuit. Ready signal. Starting up procedure succesfull
SWAB/SSM - Subcode word/start-stop motor signal
TL - Track loss output signal
TRMOT - Tray motor drive
TTM+ - Control voltage for turntable motor
TTM- - Control voltage for turntable motor
TTMO - Motor offset and bandwidth switch
VDACL-R - Reference voltage supply left(right) channel DAC
Vext+ - Supply connection
Vext- - Supply connection
VRCL-R - High impedance voltage refence for left (right) channel inputs
VROL-R - Left (right) channel voltage reference output
WCKO - Output word clock
WSAB - Word select Decoder-A to Filter-B
WSBD - Word select Filter-B to DAC
WSI - I²S word select input
WSO - I²S word select output
XIN - Oscillator signal input
XOUT - Oscillator output
XSEL - Crystal frequency select
XSYS - Oscillator signal
XTI - Crystal oscillator input
XTO - Crystal oscillator output

BLOCK DIAGRAM



HAS1029

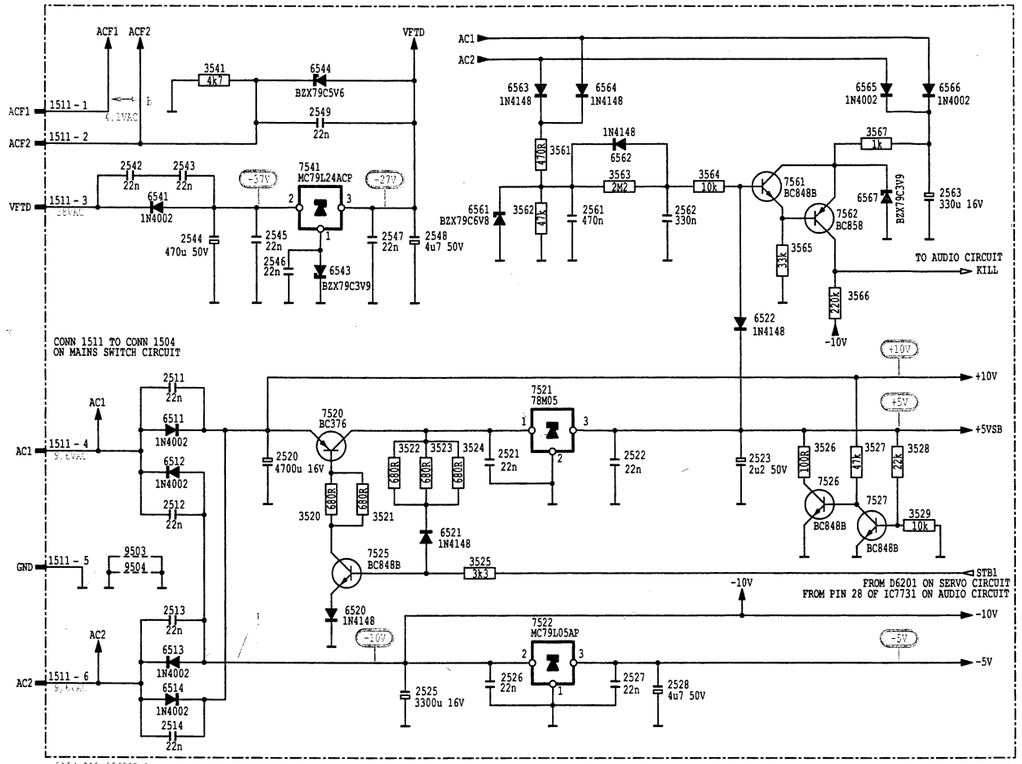
WIRING DIAGRAM



HAS1030
9210

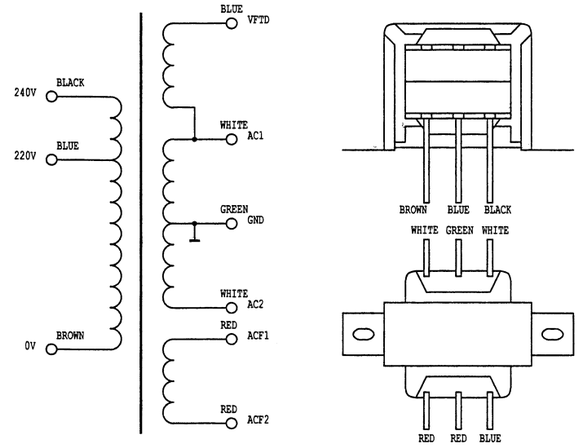
PCS 60 099

POWER SUPPLY



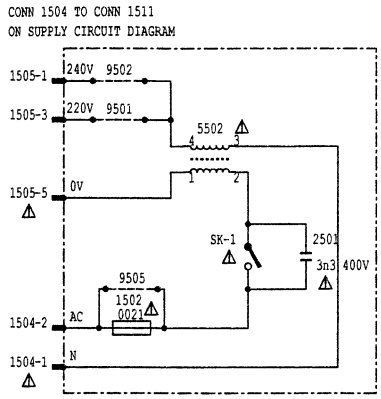
3104 118 00621S-A
9210

TRANSFORMER CONNECTIONS



HAS1038
9210

MAINS SWITCH DIAGRAM



CD940/	00S	01S	05S	10S	17S
Ref 0021	X		X	X	X
1502	100mA	var.	100mA	100mA	200mA
9501	X	X			X
9502			X	X	
9505		X			

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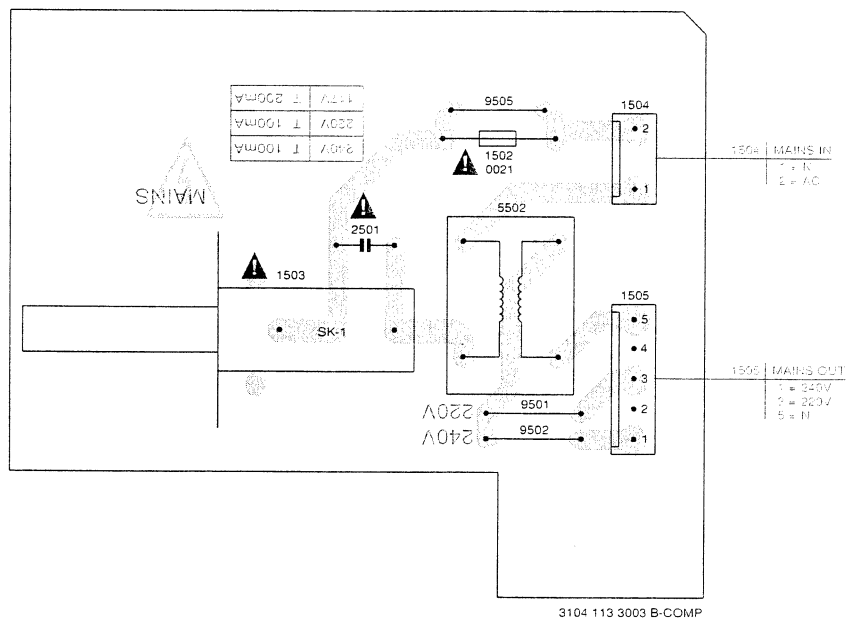
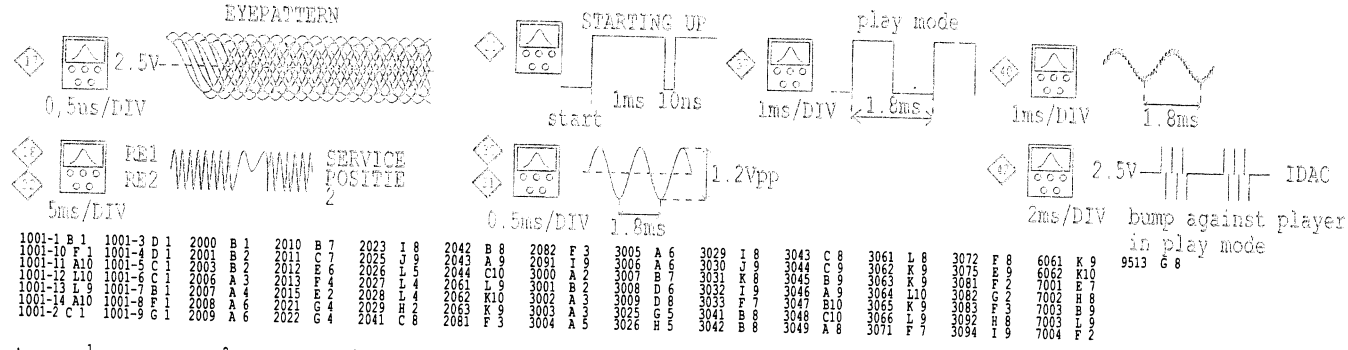
9210

MAINS SWITCH PANEL



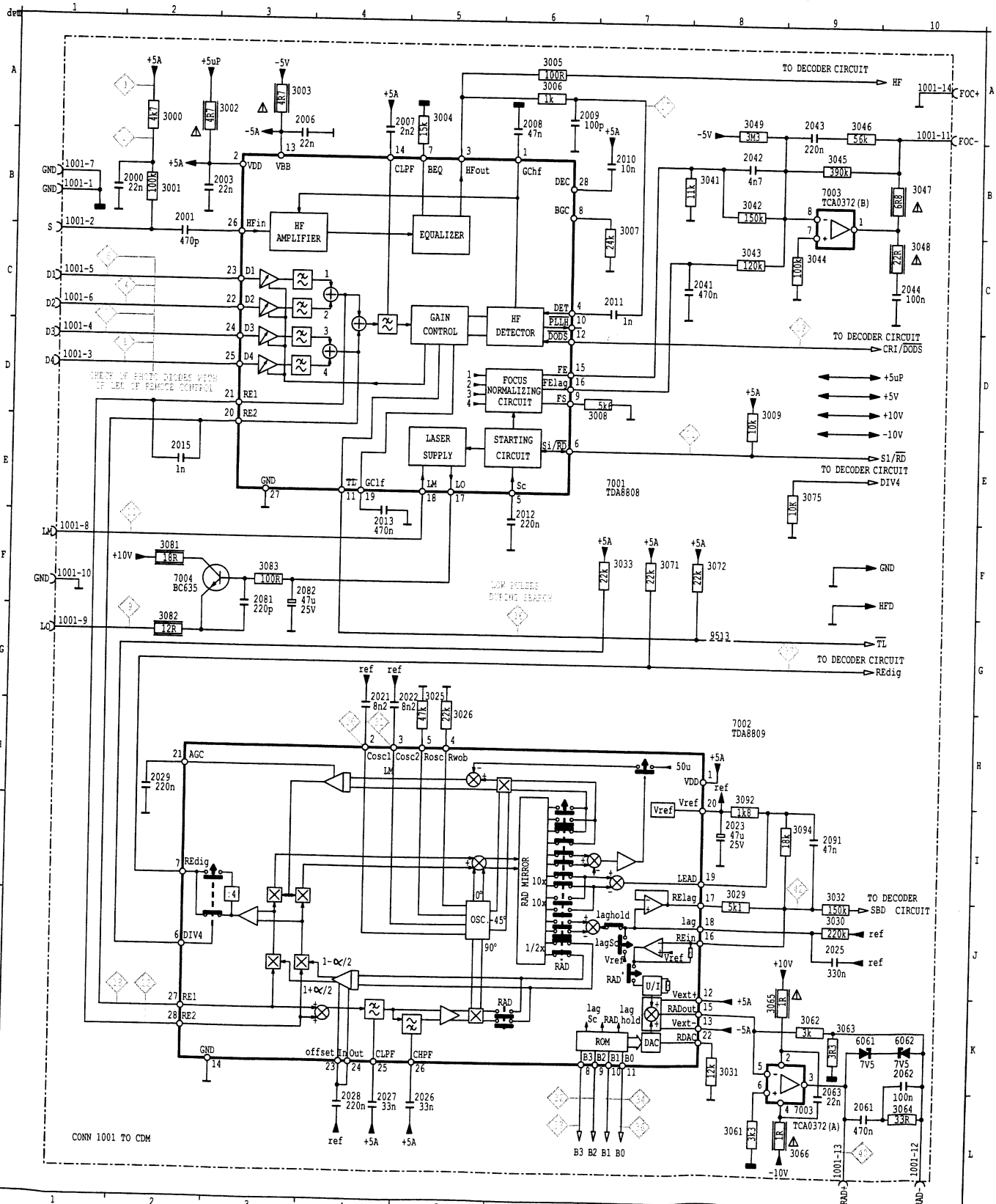
3104 113 3003 B-COMP

SERVO CIRCUIT DIAGRAM



1001-1	B 1	1001-3	D 1	2000	B 1	2010	B 7	2023	I 8	2042	B 8	2082	F 3	3005	A 6	3029	I 8	3043	C 8	3061	L 8	3072	F 8	6061	K 9
1001-10	F 1	1001-4	D 1	2001	B 2	2011	C 7	2025	J 9	2043	A 9	2091	I 9	3006	A 6	3030	J 9	3044	C 9	3062	K 9	3075	E 9	6062	K10
1001-11	A10	1001-5	C 1	2003	B 4	2012	E 6	2026	L 5	2044	C10	3000	A 2	3007	B 7	3031	K 8	3045	B 9	3063	K 9	3081	F 9	7001	E 7
1001-12	L10	1001-6	C 1	2006	A 3	2013	F 4	2027	L 4	2061	L 9	3001	B 2	3008	D 6	3032	I 9	3046	A 9	3064	L10	3082	G 2	7002	H 8
1001-13	L 9	1001-7	B 1	2007	A 4	2015	E 2	2028	L 4	2062	K10	3002	A 3	3009	D 8	3033	F 7	3047	B10	3065	K 9	3083	F 3	7003	B 9
1001-14	A10	1001-8	F 1	2008	A 6	2021	G 4	2029	H 2	2063	K 9	3003	A 3	3025	G 5	3041	B 8	3048	C10	3066	L 9	3092	H 8	7003	L 9
1001-2	C 1	1001-9	G 1	2009	A 6	2022	G 4	2041	C 8	2081	F 3	3004	A 5	3026	H 5	3042	B 8	3049	A 8	3071	F 7	3094	I 9	7004	F 2

9513 G 8



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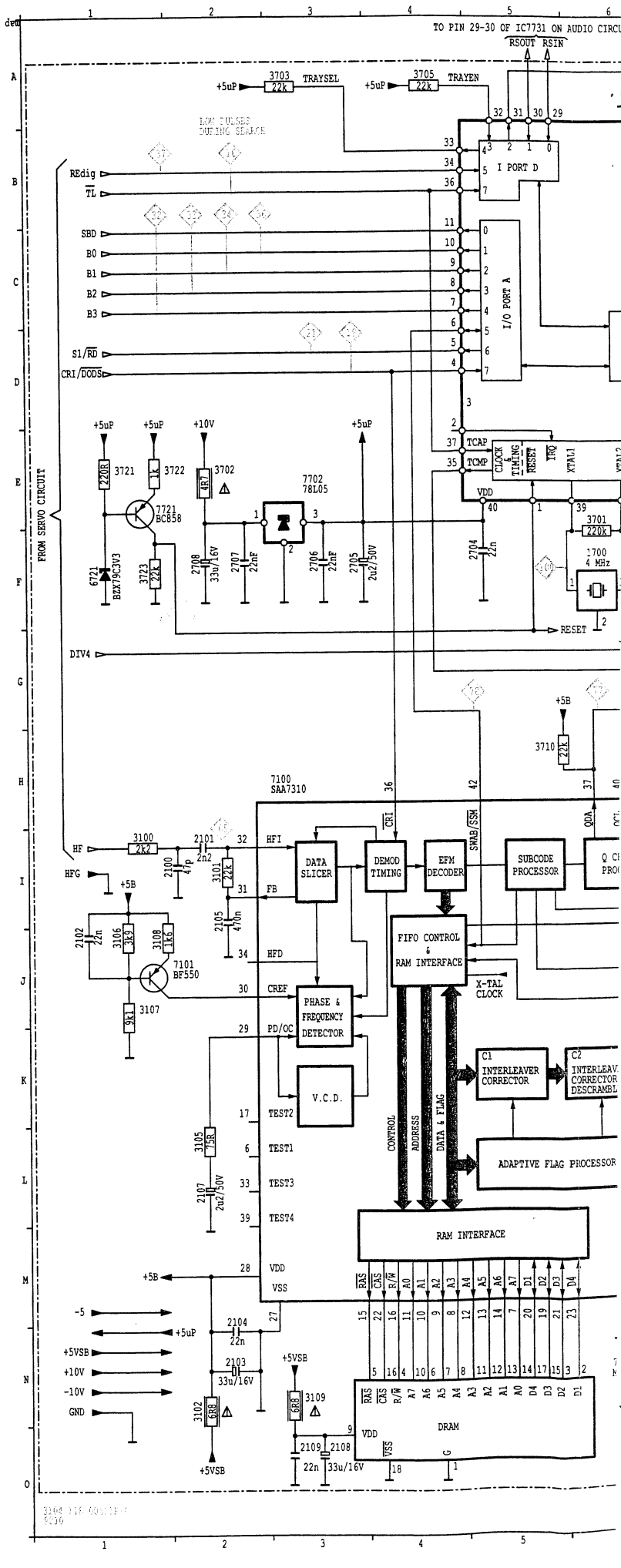
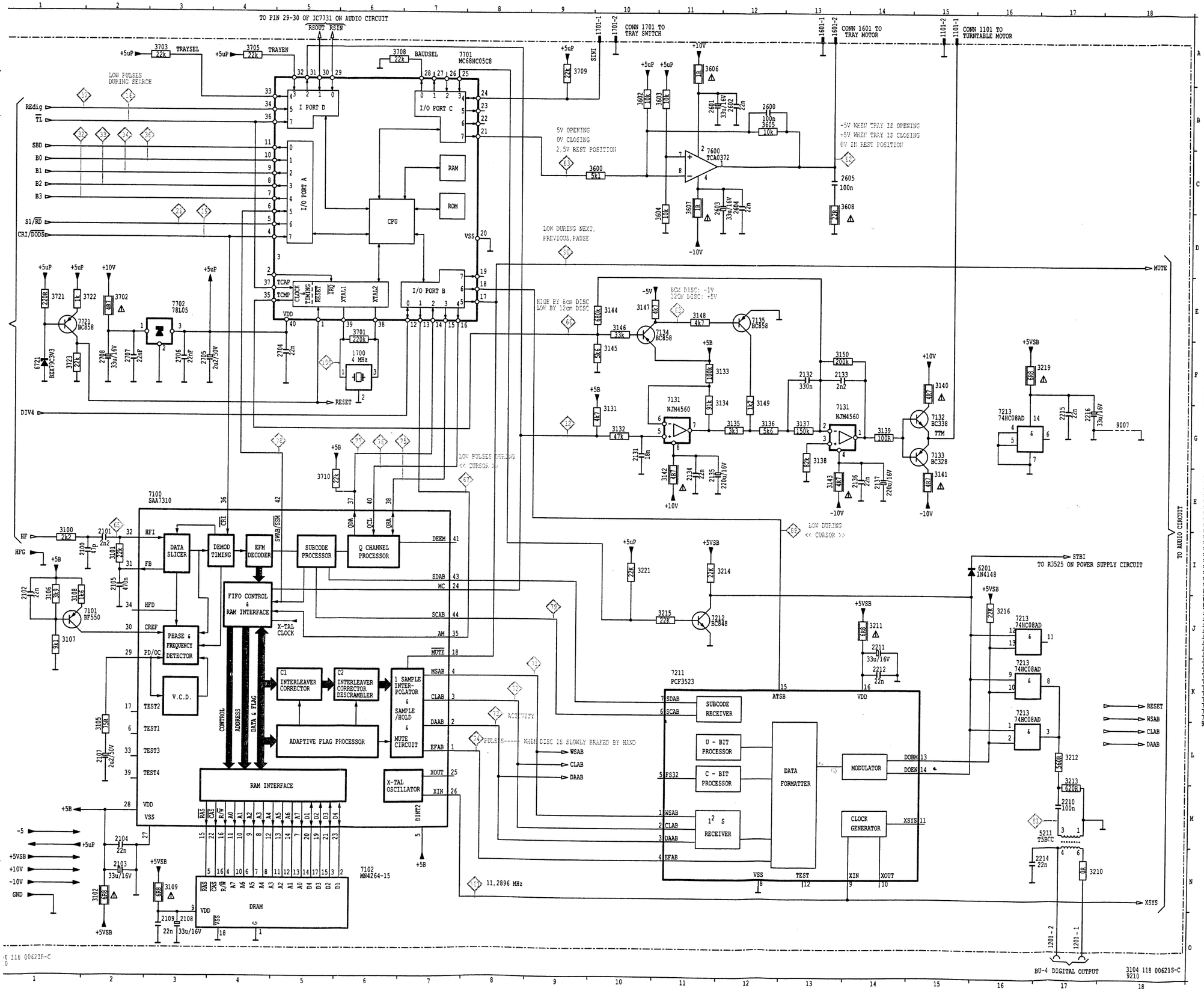
DECODER CIRCUIT DIAGRAM





MC SIGNAL

5us/DIV — 0V — ≈11us — stand by

0V — start up

0V — play mode

1ms/DIV — number depends on search speed

STARTING UP

1ms 10ms

start

	SERVICE POSITION 0		PLAY MODE
	SEARCH		SEARCH
	<<	>>	
32	HIGH	HIGH	ACTIVITY
33	HIGH	LOW	ACTIVITY
34	HIGH	HIGH	ACTIVITY
36	LOW	LOW	ACTIVITY

play mode

1ms/DIV — 1.0ms

EYEPATTERN

2.5V — 0,5us/DIV

play mode

1us/DIV — WSBD — 16 X — 16 X — CLBD — 5.66us

play mode

10ms/DIV — asynchronous uP dependent — DRA

10 X 8 bits

0.2ms/DIV — DCL — DDA — continue data

50us/DIV — 136us

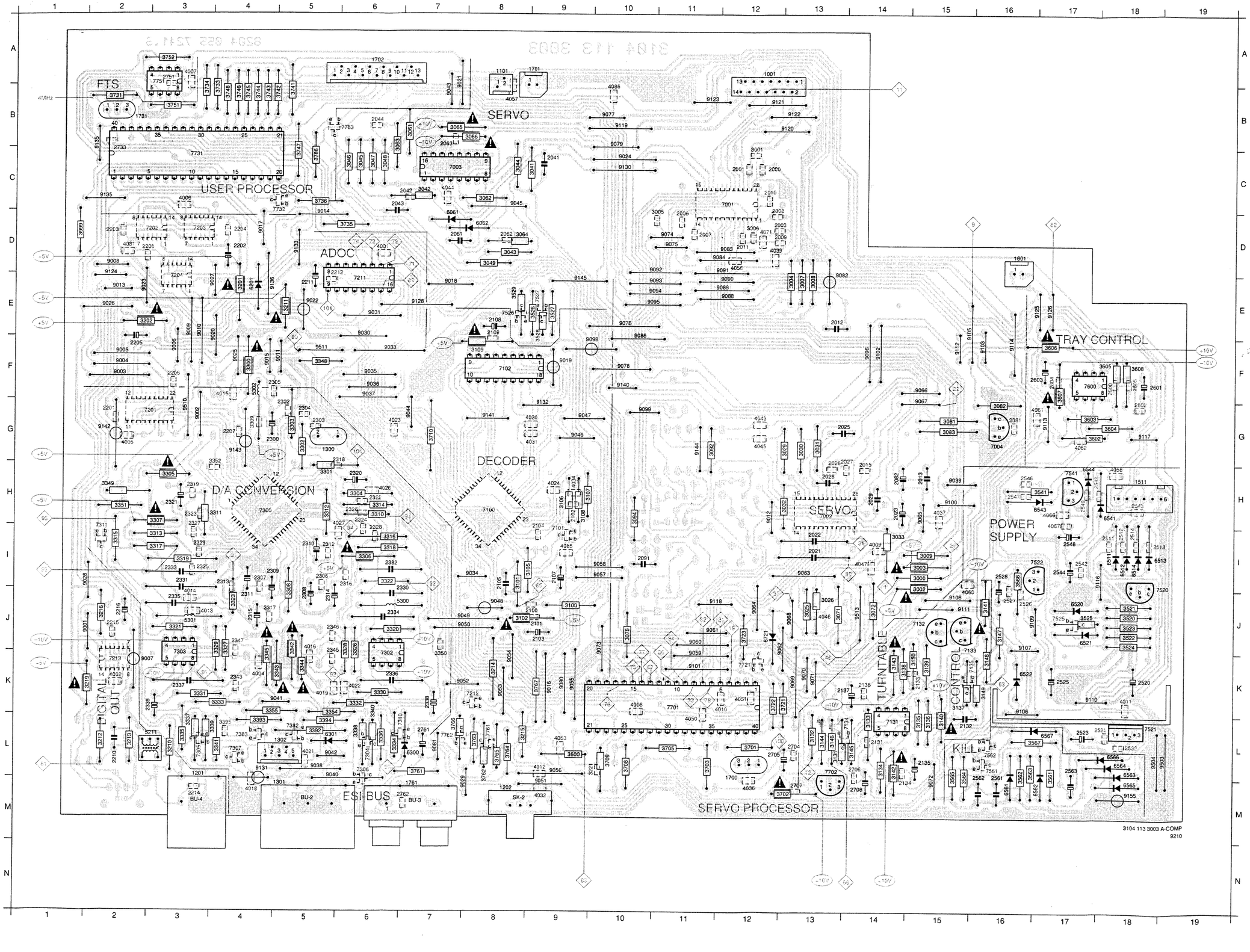
50us/DIV — 1.4ms

5us/DIV — 0V

FROM PIN 29-30 OF IC7701 ON DECODER CIRCUIT
RSIN
RSOUT
TO R3525 FROM T7562
ON SUPPLY CIRCUIT
STB1
KILL
CONN 1702 TO CONN 1403 ON DISPLAY CIRCUIT
7731 MC68HC05D24
USER
I/O PORT C
I PORT D
I/O PORT A
I/O PORT B
RAM
ROM
CPU
7751 X24C16 EEPROM
2751 22n
3751 10k
3752 10k
1731 4 MHz
3731 220k
2731 22n
3745 22k DATA-OUT
3746 22k DATA-IN
3747 22k
3748 22k
3733 22k
3736 22k
3735 22k
3741 22k
3742 22k
3743 22k
3744 22k
7732 BC858
RC5
SK-2
ESI
+5uP
+5VSB
+10V
-10V
GND
RESET
XSYS
WSAB
CLAB
DAAB
MUTE
ACTIVITY
FROM DECODER CIRCUIT
7204 74HCT04(F)
7204 74HCT04(E)
7204 74HCT04(D)
7204 74HCT04(C)
7204 74HCT04(A)
7204 74HCT04(B)
7201 SM5840A
SYSTEM CLOCK
TIMING CONTROLLER
INPUT DATA
OUTPUT DATA
CONTROL DATA INPUT
MODE CONTROL
ATT & MUTE
FILTER ATTENUATION
7202 74HC164 SHIFT REGISTER
7203 74HC164 SHIFT REGISTER
7300 SAA7350
CLOCK OSC
NOISE SHAPER (R) + DITHER/ OFFSET
NOISE SHAPER (L) + DITHER/ OFFSET
SWITCHED CAPACITOR NETWORK
INPUT INTERFACE
CONTROL
BUS
11.2896MHz
3202 6R8
3201 6R8
3300 6R8
3304 6R8
3305 6R8
3306 100R
3307 100R
3309 100R
3303 100R
3302 1k
3301 220k
3352 0R
2301 100n
2302 56p
2303 47p
2304 47p
2305 47p
2201 22n
2202 33u/16V
2203 22n
2204 22n
2205 33u/16V
2206 330p
2207 22p
2208 22n
2300 33u/16V
2302 33u/16V
2303 47p
2304 47p
2305 47p
2306 100n
2307 100n
2308 47u/25V
2309 47u/25V
2310 47n/50V
2311 47n/50V
2312 100n
2313 100n
2314 33u/16V
2315 33u/16V
2316 100n
2317 100n
2318 100n
2319 100n
2320 33u/16V
2321 33u/16V
2322 22p
2323 22p
2324 22p
2325 22p
2326 470p
2327 470p
2328 470p
2329 470p
3308 24k
3310 51k
3311 51k
3312 51k
3313 51k
3314 10k
3315 10k
3316 10k
3317 10k
3318 10k
3319 10k
3321 10k
3322 5k6
3323 5k6
3326 7k5
3327 7k5
3328 5k6
3329 5k6
3330 10k
3331 10k
3332 10k
3333 10k
3334 100R
3335 100R
3336 100R
3337 100R
3338 2k2
3339 2k2
3340 2k2
3341 2k2
3342 10k
3343 10k
3344 10R
3345 10R
3346 10R
3348 10k
3349 10k
3350 4k7
3351 4k7
3354 220k
3355 220k
7302 LM833 (A)
7303 LM833 (A)
7302 LM833 (B)
7303 LM833 (B)
7304 BC818
7305 BC818
7306 BC818
7307 BC818
7310 BC858
7311 BC858
7761 BC858
7762 BC848
7763 BC848
3761 10R
3762 10R
3763 47k
3764 100R
3765 47k
3766 47k
3767 47k
3768 47k
2761 47u/25V
2762 22n
6300 1N4148
6301 1N4148
2330 180p
2331 180p
2332 180p
2333 180p
2334 1n
2335 1n
2336 100p
2337 100p
2338 100u/16V
2339 100u/16V
2340 2u2
2341 2u2
2342 100n
2343 100n
2344 2u2
2345 2u2
2346 100n
2347 100n
5300 220uH
5301 220uH
9510
9511
7201 74HCT04(F) 12
7204 74HCT04(E) 10
7204 74HCT04(D) 8
7204 74HCT04(C) 6
7204 74HCT04(A) 2
7204 74HCT04(B) 4
1761-1 ESI
1761-2
1761-3
1761-4
BD-3
1302-1 LHP
1302-2 GND
1302-3 RHP
1302-4 -10V
1302-5 +10V
1301-1 R
1301-2 L
1301-3 GND
BU-2
ANALOG OUTPUT
CONN 1302 TO CONN 1310 ON HEADPHONE CIRCUIT
5us/DIV
WSAB
CLAB
11.34us
ANALOGUE SIGNAL
2ms/DIV
2V
1Vpp
AUDIO SIGNALS DISC TRACK 15
11,2896MHz
+4V
-10V
POWER ON
POWER OFF
LOW DURING NEXT, PREVIOUS, PAUSE
3104 118 00621R-D 5210
3104 118 00621S-D 9210

1202 D12 3767 F13
1300 H 8 3768 E12
1301 H21 5300 J16
1301 L21 5301 L16
1301 U21 5302 I 7
1302 L21 6300 K17
1302 K21 6301 O19
1302 I21 7201 I 6
1302 J21 7202 N 1
1302 Z21 7203 N 6
1702 A 3 7204 M 1
1702 A 3 7204 J 1
1702 A 3 7204 J 1
1702 A 3 7204 I 1
1702 A 3 7204 I 1
1702 A 9 7204 H 1
1702 A 8 7300 I12
1702 A 8 7302 J15
1702 A 8 7302 J18
1702 A 8 7303 L15
1702 A 9 7303 M18
1702 A 9 7304 K19
1702 A10 7305 M19
1702 A10 7306 K20
1731 G 7 7307 M21
1761 G21 7310 N15
1761 G21 7311 O11
1761 F21 7382 J20
1761 F21 7383 L20
2201 I 4 7731 B 9
2202 M 2 7732 A11
2203 N 1 7751 E 2
2204 N 6 7761 F15
2205 I 4 7762 F14
2206 L 4 7763 F12
2207 K 7 9510 O10
2208 M 3 9511 O14
2300 I 7
2301 I 7
2302 I 7
2303 I 8
2304 H 8
2305 I 9
2306 L10
2307 M10
2308 J10
2309 M10
2310 I11
2311 N11
2312 I12
2313 N12
2314 I12
2315 N12
2316 I12
2317 M12
2318 H12
2319 N12
2320 H12
2321 N12
2322 J13
2323 L13
2324 M13
2325 K13
2326 J13
2327 L13
2328 J13
2329 L13
2330 I15
2331 L15
2332 J15
2333 M15
2334 I16
2335 L16
2336 I18
2337 L18
2338 J19
2339 M19
2342 K18
2343 N18
2346 K16
2347 M16
2733 F 9
2751 E 3
2761 I15
2762 I20
3201 L 2
3202 H 4
3300 H 7
3301 I 8
3302 I 8
3303 I 9
3304 G12
3305 O12
3306 H11
3307 N11
3308 K13
3309 I 7
3310 J13
3311 L13
3312 J13
3313 M13
3314 J14
3315 M14
3316 J14
3317 M14
3318 J14
3319 M14
3320 I15
3321 L15
3322 J15
3323 M15
3326 J16
3327 M17
3328 I18
3329 L18
3330 K17
3331 M17
3332 K19
3333 M19
3334 J19
3335 M19
3336 K20
3337 M20
3338 K19
3339 N19
3340 K20
3341 N20
3342 K18
3343 N18
3344 K15
3345 N15
3346 K15
3347 N15
3348 I 9
3349 O 9
3350 N14
3351 O10
3352 J 7
3354 K16
3355 O19
3393 L20
3394 J20
3395 P20
3733 B11
3735 E 9
3736 B 4
3741 B 4
3742 B 4
3743 B 4
3744 B 4
3745 A 5
3746 A 6
3747 A10
3748 B 7
3751 E 4
3752 E 4
3761 G15
3762 G15
3763 F15
3764 D15
3765 E14
3766 E14

MAIN PANEL COMPONENT SIDE



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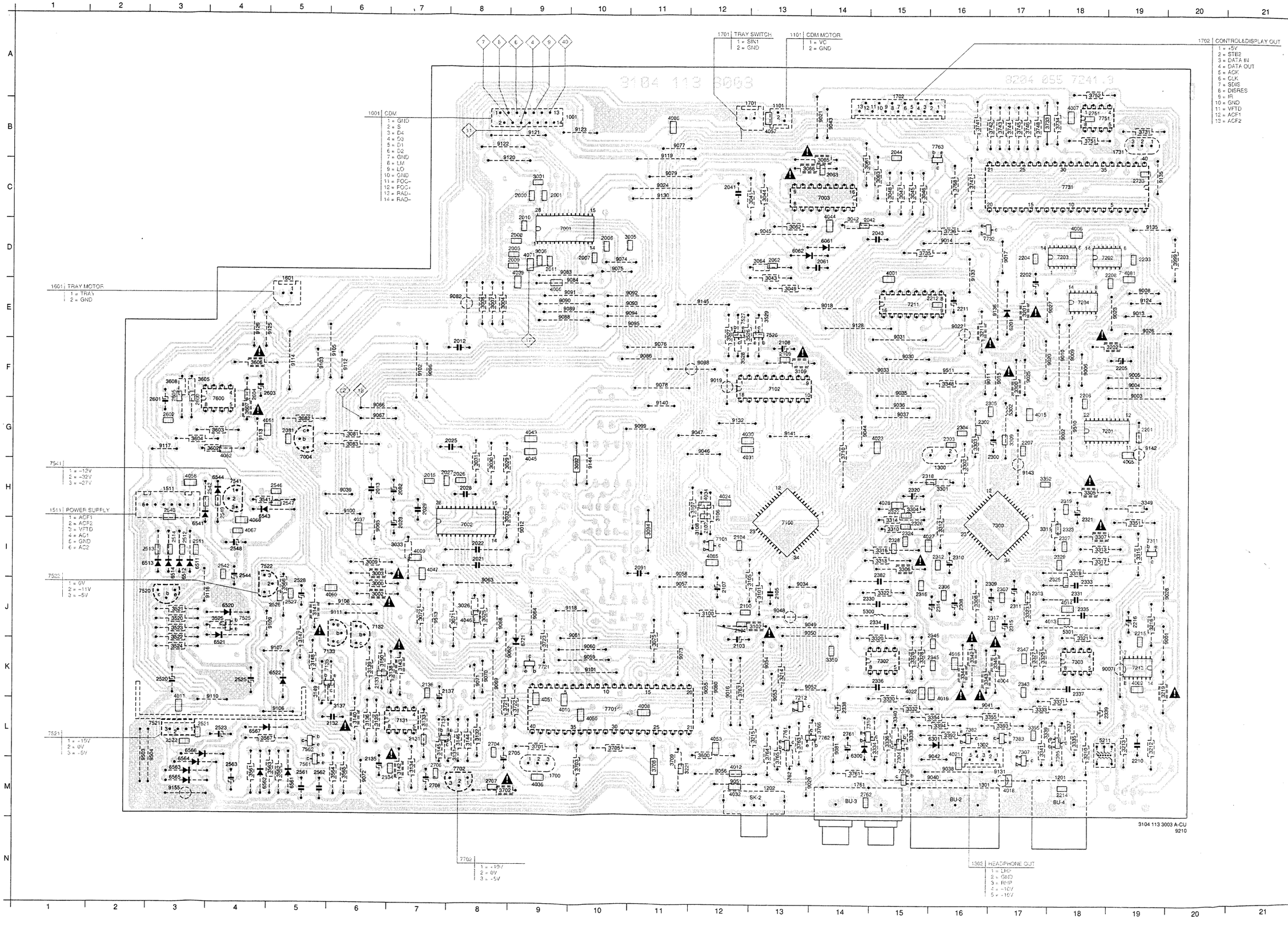
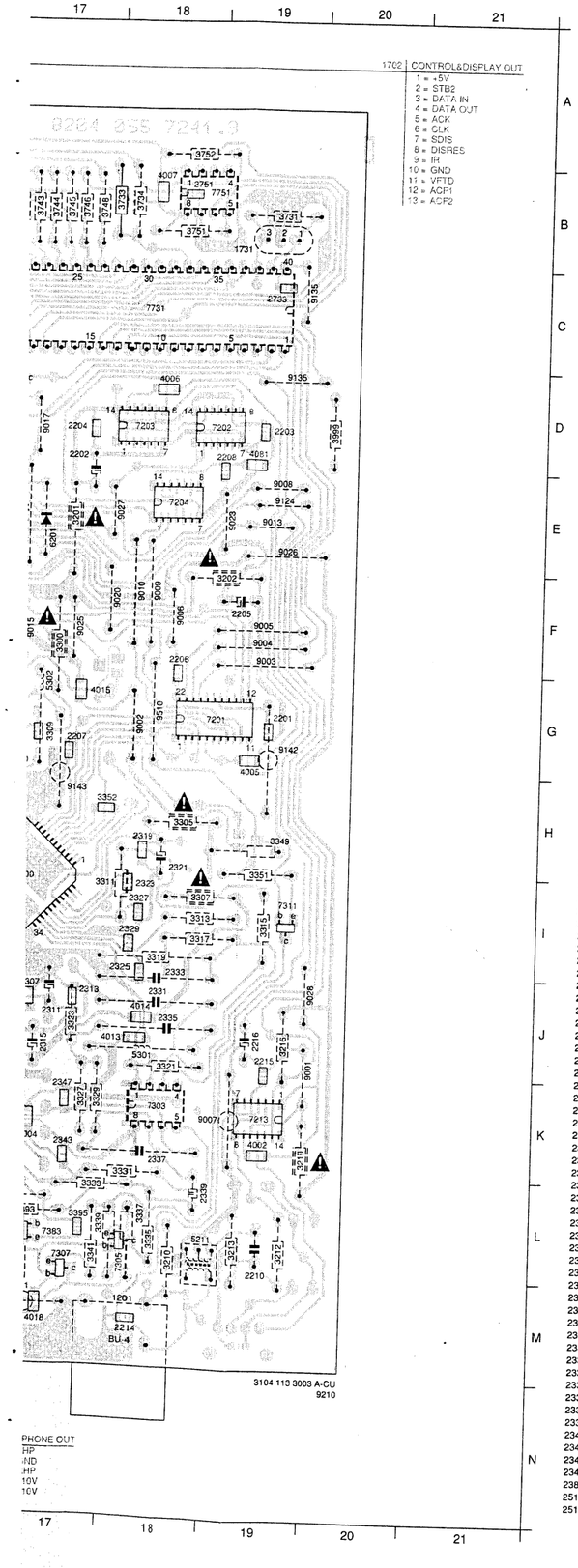
1101	A8	2347	J4	3214	K8	3764	L8	7521	L18	9101	K11
1201	L3	2382	I6	3215	L8	3765	L8	7522	I16	9102	F14
1202	M8	2511	I18	3216	J2	3766	L7	7525	J17	9103	F16
1300	G5	2512	I18	3219	K2	3767	K9	7526	E8	9105	E15
1301	M5	2513	I18	3221	L10	3786	C5	7527	E9	9106	K16
1302	L5	2514	I18	3300	F4	3999	D1	7541	H17	9107	J16
1511	H18	2520	K18	3301	H5	4001	D6	7561	L16	9108	J15
1601	D16	2521	L17	3302	G5	4002	K2	7562	L16	9109	J16
1700	L12	2522	L18	3303	G5	4004	K4	7600	F17	9110	K17
1701	A8	2523	L17	3304	H6	4005	G2	7701	K11	9111	J15
1702	A6	2525	K17	3305	H3	4006	C3	7702	L13	9112	F15
1731	B2	2526	J16	3306	I6	4007	A3	7721	K12	9113	G17
1761	M7	2527	J16	3307	H3	4008	K10	7731	C3	9114	F16
2000	C12	2528	I16	3308	J5	4009	I14	7732	D4	9116	I18
2001	C12	2542	I17	3309	G4	4010	K11	7751	B3	9117	G18
2003	D12	2542	H18	3310	H6	4011	K18	7761	L8	9118	J11
2006	D11	2543	H18	3311	H3	4012	L9	7762	L7	9119	B10
2007	D11	2544	I17	3312	H5	4013	J3	7763	B6	9120	B12
2008	C12	2546	H16	3313	I3	4014	J3	9001	J2	9121	B12
2009	D12	2547	H16	3314	H6	4015	F4	9002	G3	9122	B13
2010	C12	2548	I17	3315	I2	4016	J5	9003	F2	9123	B11
2011	D12	2549	H17	3316	I6	4018	M4	9004	F2	9124	E2
2012	E13	2561	L16	3317	I3	4019	K5	9005	F2	9125	E17
2013	H15	2562	L16	3318	I6	4021	L5	9006	F3	9126	E17
2015	H14	2563	L17	3319	I3	4022	K6	9007	K2	9128	E7
2021	I13	2600	F18	3320	J6	4023	G6	9008	D2	9130	C10
2022	I13	2601	F18	3321	J3	4024	H9	9009	F3	9131	L4
2023	H14	2602	G18	3322	I6	4026	H6	9010	F3	9132	G9
2025	G13	2603	F16	3323	J4	4027	H5	9011	F5	9133	D5
2026	G13	2604	F17	3326	K6	4030	G8	9012	H12	9135	C2
2027	G13	2605	F18	3327	K4	4031	G8	9013	E2	9135	C2
2028	H13	2704	L13	3328	K6	4032	M9	9014	D5	9136	E4
2029	H14	2705	L12	3329	K4	4034	H9	9015	F4	9140	F10
2041	C9	2706	L14	3330	K6	4036	M12	9016	K9	9141	G8
2042	C6	2707	M13	3331	K3	4037	H15	9017	D4	9142	G2
2043	C6	2708	M14	3332	K6	4039	D12	9018	E7	9143	G4
2044	B6	2733	C2	3333	K4	4043	G12	9019	F9	9144	G11
2061	D7	2751	A3	3334	L6	4044	C7	9020	F4	9145	E9
2062	D8	2761	L7	3335	L3	4045	G12	9021	B7	9155	M18
2063	B7	2762	M6	3336	L6	4046	J13	9022	E5	9503	L19
2081	G16	3000	I15	3337	L3	4047	I14	9023	E2	9504	L18
2082	H14	3001	C12	3338	L6	4050	L11	9024	C10	9510	G3
2091	I10	3002	I15	3339	L4	4051	K12	9025	F4	9511	F5
2100	J8	3003	I15	3340	L6	4053	L9	9026	E2	9513	J14
2101	J9	3004	E13	3341	L4	4056	D12	9027	E4		
2102	H9	3005	D10	3342	K5	4057	B8	9028	I2		
2103	J9	3006	D12	3343	K5	4058	H18	9029	M8		
2104	I9	3007	E13	3344	K5	4060	J15	9030	E6		
2105	J8	3008	E13	3345	K4	4061	G16	9031	E6		
2107	I9	3009	I15	3348	F5	4062	G17	9033	F6		
2108	E8	3025	J13	3349	H2	4066	H17	9034	I8		
2109	E8	3026	J13	3350	K7	4067	H17	9035	F6		
2131	L14	3029	G13	3351	H2	4071	D12	9036	F6		
2132	L15	3030	G13	3352	H3	4081	D2	9037	F6		
2133	K15	3031	G13	3354	K5	4085	I9	9038	L5		
2134	M14	3032	H13	3355	K4	4086	B10	9039	H15		
2135	L15	3033	I14	3392	L5	5211	L2	9040	L5		
2136	K14	3041	C9	3393	L4	5300	J6	9041	K4		
2137	K13	3042	C7	3394	L5	5301	J3	9042	L5		
2201	G2	3043	D8	3395	L4	5302	F4	9043	B7		
2202	D4	3044	C8	3520	J18	6061	D7	9044	G7		
2203	D2	3045	C6	3521	J18	6062	D8	9045	C8		
2204	D4	3046	C6	3522	J18	6201	E4	9046	G9		
2205	F2	3047	C6	3523	J18	6300	L7	9047	G9		
2206	F3	3048	C6	3524	J18	6301	L5	9048	J8		
2207	G4	3049	D8	3525	J17	6511	I18	9049	J7		
2208	D2	3061	B7	3526	E9	6512	I18	9050	J7		
2210	L2	3062	C8	3527	E9	6513	I18	9051	M9		
2211	E5	3063	C6	3528	F9	6514	I18	9052	K7		
2212	E5	3064	D8	3529	E8	6520	J17	9053	K8		
2214	M3	3065	B7	3541	H16	6521	J17	9054	K8		
2215	J2	3066	B7	3561	M17	6522	K16	9055	K9		
2216	J2	3071	J13	3562	M16	6541	H18	9056	L9		
2300	G4	3072	J14	3563	L16	6543	H16	9057	I10		
2302	G5	3075	J10	3564	M15	6544	H17	9058	I10		
2303	G5	3081	G15	3565	M15	6561	M16	9059	K11		
2304	G5	3082	G16	3566	I16	6562	M17	9060	J11		
2305	F4	3083	G15	3567	L16	6563	L18	9061	J11		
2306	I5	3092	G11	3600	L9	6564	L18	9062	K13		
2307	I4	3094	H10	3602	G17	6565	M18	9063	I13		
2308	J5	3100	J9	3603	G17	6566	L18	9064	J12		
2309	I4	3101	J8	3604	G18	6567	L17	9065	H15		
2310	I5	3102	J8	3605	F18	6721	J12	9066	F15		
2311	J4	3105	I9	3606	F17	7001	C12	9067	G15		
2312	I5	3106	H9	3607	F17	7002	H13	9068	J13		
2313	I4	3107	H9	3608	F18	7003	C7	9069	K13		
2314	J5	3108	H9	3701	L12	7004	G16	9070	K13		
2315	J4	3109	F8	3702	M12	7100	H8	9071	K13		
2316	I6	3131	L13	3703	L11	7101	I9	9072	M15		
2317	J4	3132	L13	3705	L11	7102	F8	9073	K10		
2318	G5	3133	L14	3708	L10	7131	L14	9074	D11		
2319	H3	3134	L14	3709	L10	7132	J15	9075	D11		
2320	H6	3135	L15	3710	G7	7133	J15	9076	E10		
2321	H3	3136	L15	3721	K13	7134	L14	9077	B10		
2322	H6	3137	K15	3722	K12	7135	K16	9078	F10		
2323	H3	3138	K14	3723	J12	7201	G2	9079	B10		
2324	H6	3139	K15	3731	B2	7202	D2	9080	K9		
2325	I3	3140	L15	3733	B4	7203	D3	9081	L7		
2326	H6	3141	J16	3734	B3	7204	E3	9082	E13		
2327	I3	3142	L14	3735	D6	7211	E6	9083	D11		
2328	I6	3143	K14	3736	C5	7212	K8	9084	D11		
2329	I3	3144	L13	3741	B5	7213	K2	9086	E10		
2330	J6	3145	L14	3742	B5	7300	H4	9088	E12		
2331	I3	3146	L13	3743	B4	7302	K6	9089	E11		
2333	I3	3147	J16	3744	B4	7303	K3	9090	E12		
2334	J6	3148	K16	3745	B4	7304	L6	9091	D11		
2335	J3	3149	K16	3746	B4	7305	L3	9092	D10		
2336	K6	3150	K15	3747	C5	7306	L6	9093	E10		
2337	K3	3201	E4	3748	B4	7307	L4	9094	E10		
2338	K7	3202	E2	3751	B3	7310	L7	9095	E10		
2339	K3	3210	L3	3752	A3	7311	I2	9096	F14		
2343	K4	3211	E5	3761	L7	7382	L5	9098	F9		
2345	K5	3212	L2	3762	M8	7383	L4	9099	G10		

MAIN PANEL SOLDER SIDE





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1201	M18	2520	K3	3306	I15	4012	M12	9004	F19	9131	M17
1202	M13	2521	L3	3307	I18	4013	J17	9005	F19	9132	G12
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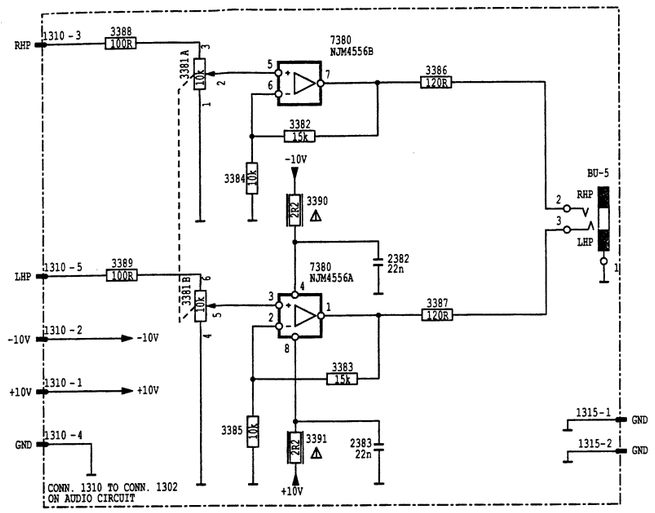
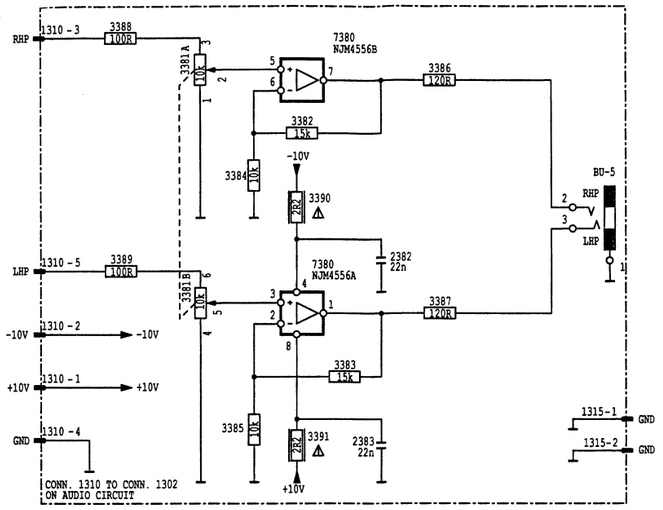
1301	M16	2523	L4	3309	G17	4015	G17	9007	K18	9135	D19
1302	L16	2525	K4	3310	I15	4016	K16	9008	E19	9135	C19
1511	H3	2526	J5	3311	I17	4018	M17	9009	F18	9136	E17
1601	E5	2527	J5	3312	I16	4019	K16	9010	F18	9140	G11
1700	M9	2528	J5	3313	I18	4021	L16	9011	F17	9141	G13
1701	B12	2542	H4	3314	H15	4022	K15	9012	I9	9142	G19
1702	A15	2542	I4	3315	I19	4023	G15	9013	E19	9143	H17
1731	B19	2543	H3	3316	I15	4024	H12	9014	D16	9144	H10
1761	M14	2544	I4	3317	I18	4026	H15	9015	F17	9145	E12
2000	C9	2546	H5	3318	I15	4027	I15	9016	K12	9155	M3
2001	C9	2547	H5	3319	I18	4030	G12	9017	D17	9503	M2
2003	D8	2548	I4	3320	J15	4031	G12	9018	E14	9504	M3
2006	D10	2549	I4	3321	J18	4032	M12	9019	F12	9510	G18
2007	D10	2561	M5	3322	J15	4034	H12	9020	F18	9511	F16
2008	D9	2562	M5	3323	J17	4036	M9	9021	B14	9513	J7
2009	D8	2563	M4	3326	K15	4037	I6	9022	E16		
2010	C9	2600	G3	3327	K17	4039	D9	9023	E19		
2011	D9	2601	G3	3328	K15	4043	G9	9024	C11		
2012	F8	2602	G3	3329	K17	4044	C14	9025	F17		
2013	H6	2603	F4	3330	K15	4045	H9	9026	E19		
2015	H7	2604	G4	3331	L18	4046	J8	9027	E18		
2021	I8	2605	G3	3332	L15	4047	I7	9028	J20		
2022	I8	2704	L8	3333	L17	4050	L10	9029	M14		
2023	I7	2705	L9	3334	L15	4051	L9	9030	F15		
2025	G7	2706	M7	3335	L18	4053	L12	9031	E15		
2026	H8	2707	M8	3336	L15	4056	E9	9033	F15		
2027	H7	2708	M7	3337	L18	4057	B13	9034	J13		
2028	H8	2733	C19	3338	L15	4058	H3	9035	F15		
2029	H7	2751	B18	3339	L18	4060	J5	9036	G15		
2041	C12	2761	L14	3340	L15	4061	G4	9037	G15		
2042	D14	2762	M14	3341	L17	4062	H4	9038	M16		
2043	D15	3000	J6	3342	K16	4066	I4	9039	H6		
2044	B15	3001	C9	3343	K16	4067	I4	9040	M15		
2061	D14	3002	J6	3344	K16	4071	D9	9041	L16		
2062	D13	3003	I6	3345	K17	4081	D19	9042	L16		
2063	C14	3004	E8	3348	F16	4085	I12	9043	B14		
2081	G5	3005	D10	3349	H19	4086	B11	9044	G14		
2082	H7	3006	D9	3350	K14	5211	L18	9045	D13		
2091	I11	3007	E8	3351	I19	5300	J14	9046	G12		
2100	J12	3008	E8	3352	H17	5301	J18	9047	G12		
2101	J12	3009	I6	3354	L15	5302	G17	9048	J13		
2102	I12	3025	J8	3355	L16	6061	D14	9049	J13		
2103	K12	3026	J8	3392	L16	6062	D13	9050	J13		
2104	I12	3029	H9	3393	L17	6201	E17	9051	M12		
2105	J13	3030	H8	3394	L16	6300	L14	9052	K13		
2107	J12	3031	H8	3395	L17	6301	L15	9053	L13		
2108	F13	3032	I9	3520	J3	6511	I3	9054	K13		
2109	F13	3033	I7	3521	J3	6512	J3	9055	K12		
2131	L7	3041	C13	3522	K3	6513	I2	9056	M12		
2132	L5	3042	C14	3523	J3	6514	J3	9057	J11		
2133	K6	3043	D13	3524	K3	6520	J4	9058	I11		
2134	M6	3044	C13	3525	J4	6521	K4	9059	K10		
2135	M6	3045	C15	3526	E12	6522	K5	9060	K10		
2136	K7	3046	C15	3527	E12	6541	I3	9061	J10		
2137	K7	3047	C15	3528	F12	6543	I4	9062	K9		
2201	G19	3048	C15	3529	E13	6544	H4	9063	J8		
2202	D17	3049	E13	3541	H4	6561	M5	9064	J9		
2203	D19	3061	C14	3561	M4	6562	M5	9065	I6		
2204	D17	3062	D13	3562	M5	6563	M3	9066	G6		
2205	F19	3063	C15	3563	M5	6564	M3	9067	G6		
2206	F18	3064	D13	3564	M6	6565	M3	9068	J8		
2207	G17	3065	C14	3565	M6	6566	L3	9069	K8		
2208	D18	3066	C13	3566	J5	6567	L4	9070	K8		
2210	L19	3071	J8	3567	L4	6721	K9	9071	K8		
2211	E16	3072	J7	3600	L12	7001	D9	9072	M6		
2212	E15	3075	K11	3602	G3	7002	I8	9073	K11		
2214	M18	3081	G6	3603	G4	7003	C14	9074	D10		
2215	J19	3082	G5	3604	G3	7004	H5	9075	D10		
2216	J19	3083	G6	3605	F3	7100	I13	9076	F11		
2300	G16	3092	H10	3606	F4	7101	I12	9077	B11		
2302	G16	3094	I11	3607	G4	7102	F13	9078	F11		
2303	G16	3100	J12	3608	F3	7131	L7	9079	C11		
2304	G16	3101	J13	3701	L9	7132	J6	9080	K12		
2305	G16	3102	J13	3702	M8	7133	K5	9081	L14		
2306	J16	3105	J13	3703	M10	7134	L7	9082	E8		
2307	J17	3106	I12	3705	L10	7135	K6	9083	D9		
2308	J16	3107	H12	3708	M11	7201	G18	9084	E9		
2309	J16	3108	I12	3709	M11	7202	D18	9086	F11		
2310	I16	3109	F13	3710	G14	7203	D18	9088	E9		
2311	J17	3131	M8	3721	L8	7204	E18	9089	E9		
2312	I16	3132	L8	3722	L9	7211	E15	9090	E9		
2313	J17	3133	L7	3723	K9	7212	K13	9091	E9		
2314	J16	3134	M7	3731	B19	7213	K19	9092	E10		
2315	J17	3135	L6	3733	B18	7300	I17	9093	E10		
2316	J15	3136	L6	3734	B18	7302	K15	9094	E10		
2317	J16	3137	L6	3735	D15	7303	K18	9095	E10		
2318	H15	3138	K7	3736	D16	7304	M15	9096	F7		
2319	H18	3139	K6	3741	B16	7305	M18	9098	F12		
2320	H15	3140	L6	3742	B17	7306	M15	9099	G11		
2321	H18	3141	J5	3743	B17	7307	L17	9100	H6		
2322	H15	3142	M7	3744	B17	7310	L15	9101	K10		
2323	I18	3143	K7	3745	B17	7311	I19	9102	F7		
2324	I15	3144	L8	3746	B17	7382	L16	9103	F5		
2325	I18	3145	L7	3747	C16	7383	L17	9105	F6		
2326	I15	3146	L8	3748	B17	7520	J2	9106	L5		
2327	I18	3147	K5	3751	B18	7521	L3	9107	K5		
2328	I15	3148	K5	3752	A18	7522	I4	9108	J6		
2329	I18	3149	K5	3761	M14	7525	J4	9109	J5		
2330	J14	3150	K6	3762	M13	7526	E13	9110	L4		
2331	J18	3201	E17	3763	L13	7527	E12	9111	J6		
2333	J18	3202	F18	3764	L13	7541	H4	9112	F6		
2334	J15	3210	L18	3765	M13	7561	M5	9113	G4		
2335	J18	3211	E16	3766	L14	7562	L5	9114	F5		
2336	K15	3212	L19	3767	K12	7600	G4	9116	J4		
2337	K18	3213	L19	3768	C16	7701	L10	9117	G3		
2338	L14	3214	K13	3999	D20	7702	M8	9118	J9		
2339	L19	3215	L13	4001	D15	7721	K9	9119	B11		
2343	K17	3216	J19	4002	K19	7731	C18	9120	B8		
2345	K15	3219	K19	4004	K17	7732	D16	9121	B9		
2346	J15	3221	M12	4005	H19	7751	B18	9122	B8		
2347	K17	3300	F17	4006	D18	7761	L13	9123	B10		
2382	I15	3301	H16	4007	B18	7762	L14	9124	E19		
2511	I3	3302	H16	4008	L11	7763	B16	9125	E5		
2512	I3	3303	G16	4009	I7	9001	K20	9126	E4		

VARIABLE HEADPHONE CIRCUIT DIAGRAM



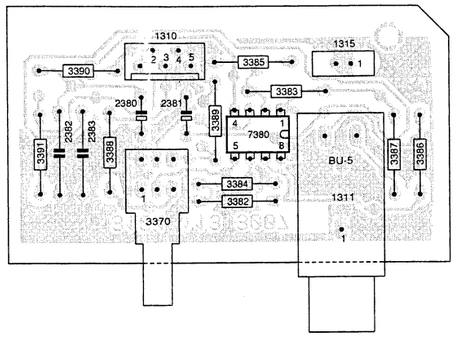
3104 118 00631S-B
9207

VARIABLE HEADPHONE CIRCUIT DIAGRAM



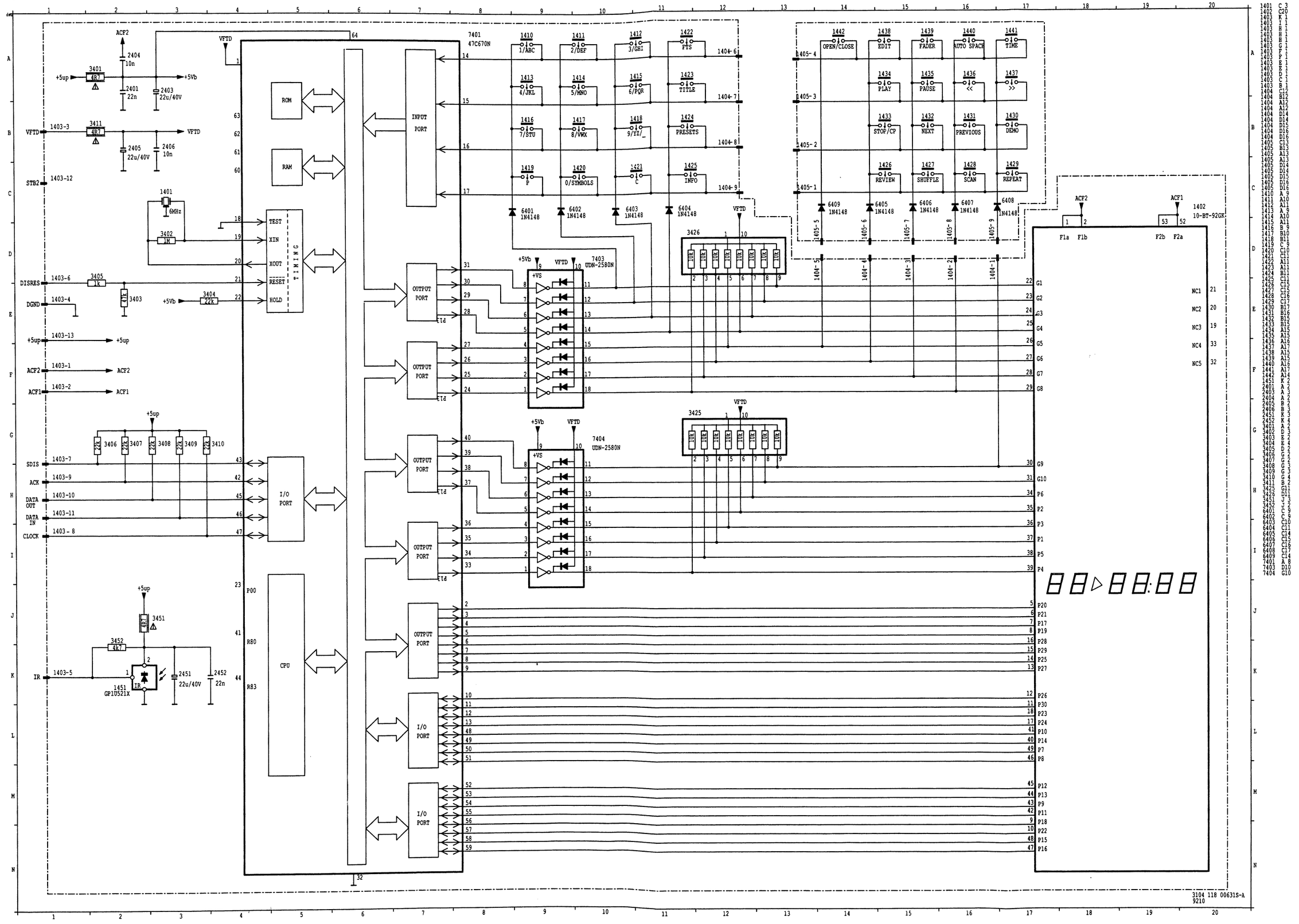
3104 118 00631S-B
9207

VARIABLE HEADPHONE PANEL



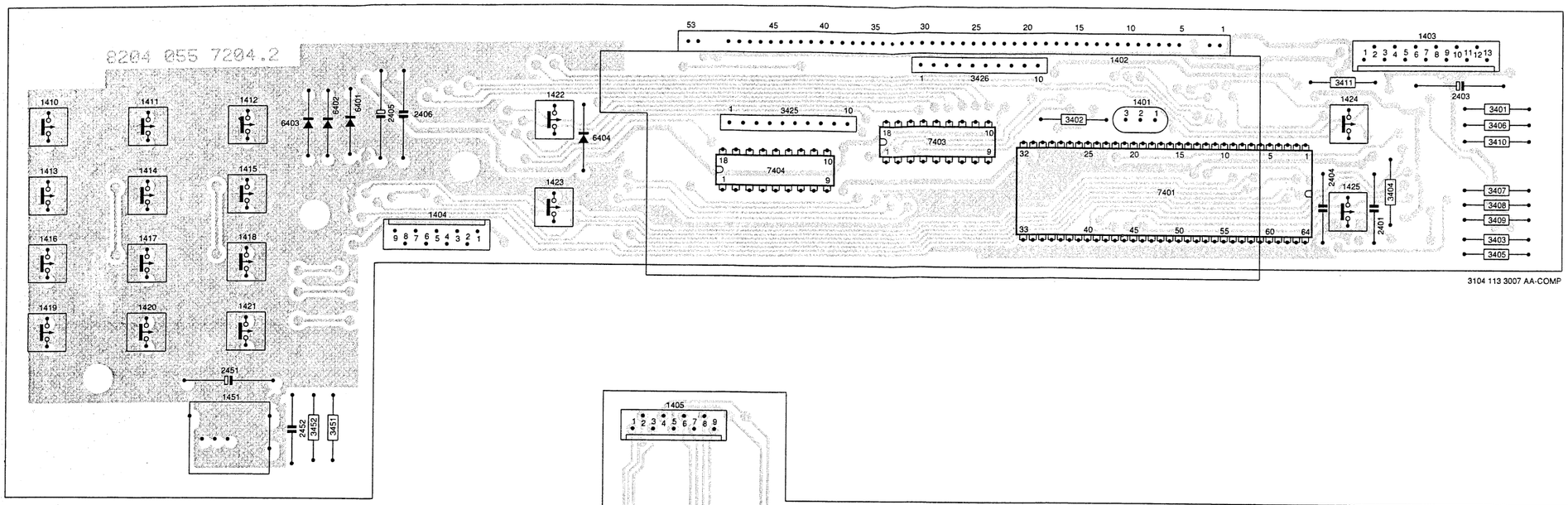
3104 113 3007 C-COMP
9210

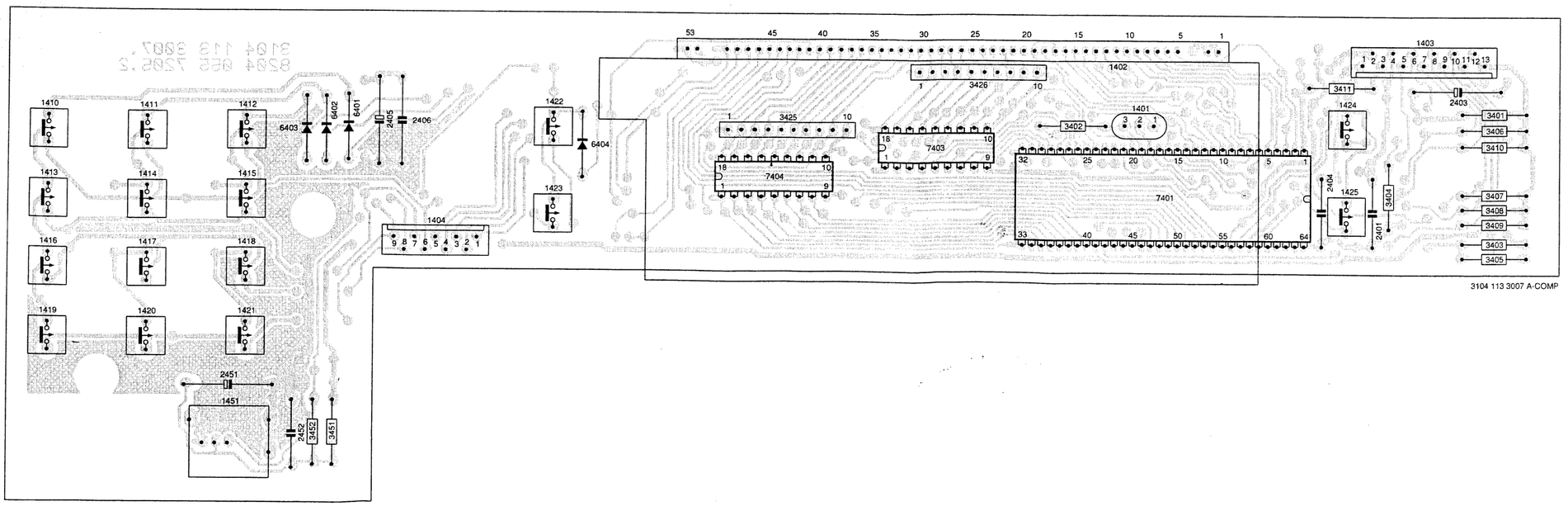
CONTROL & DISPLAY CIRCUIT DIAGRAM



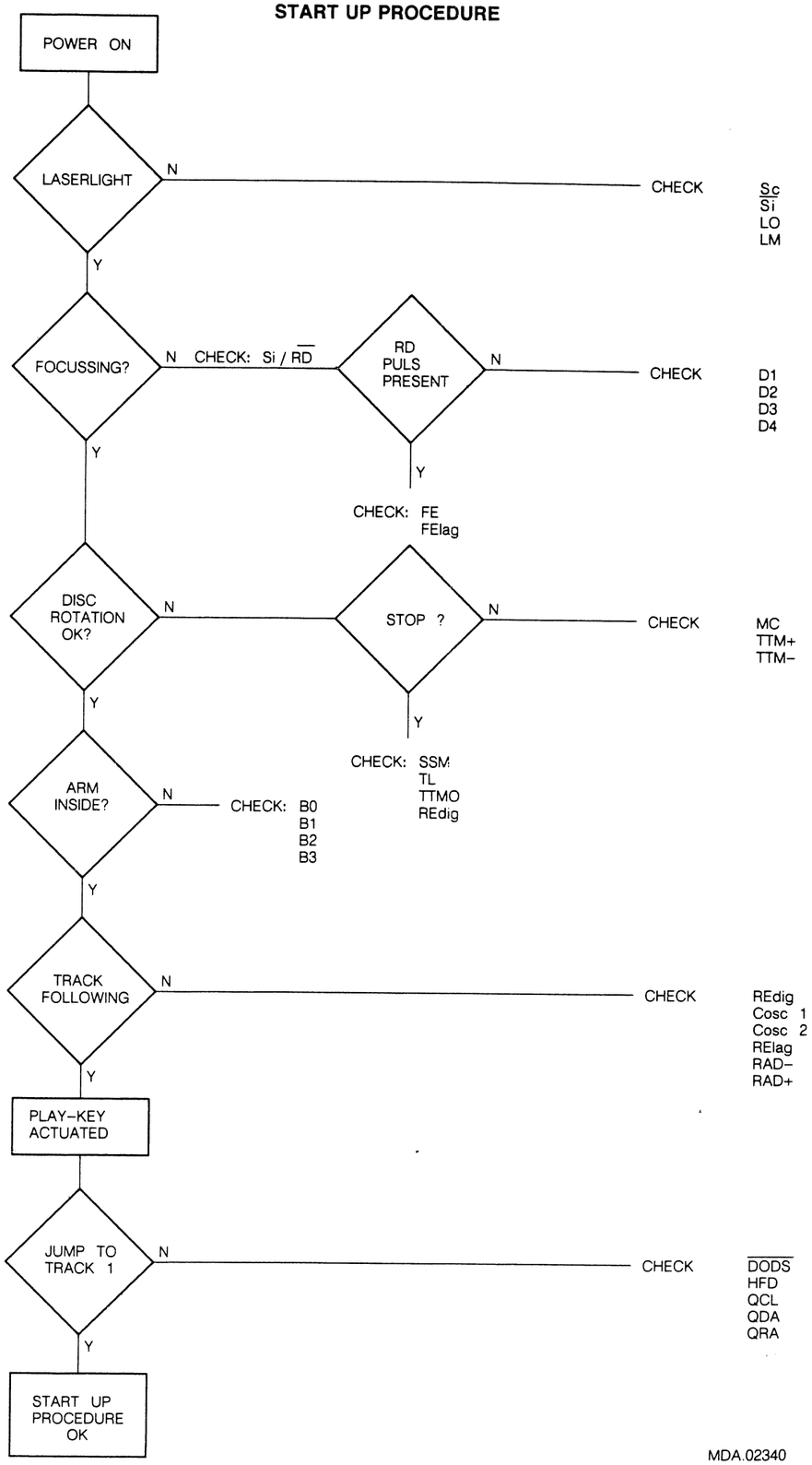
DISPLAY PANEL

KEYBOARD PANEL



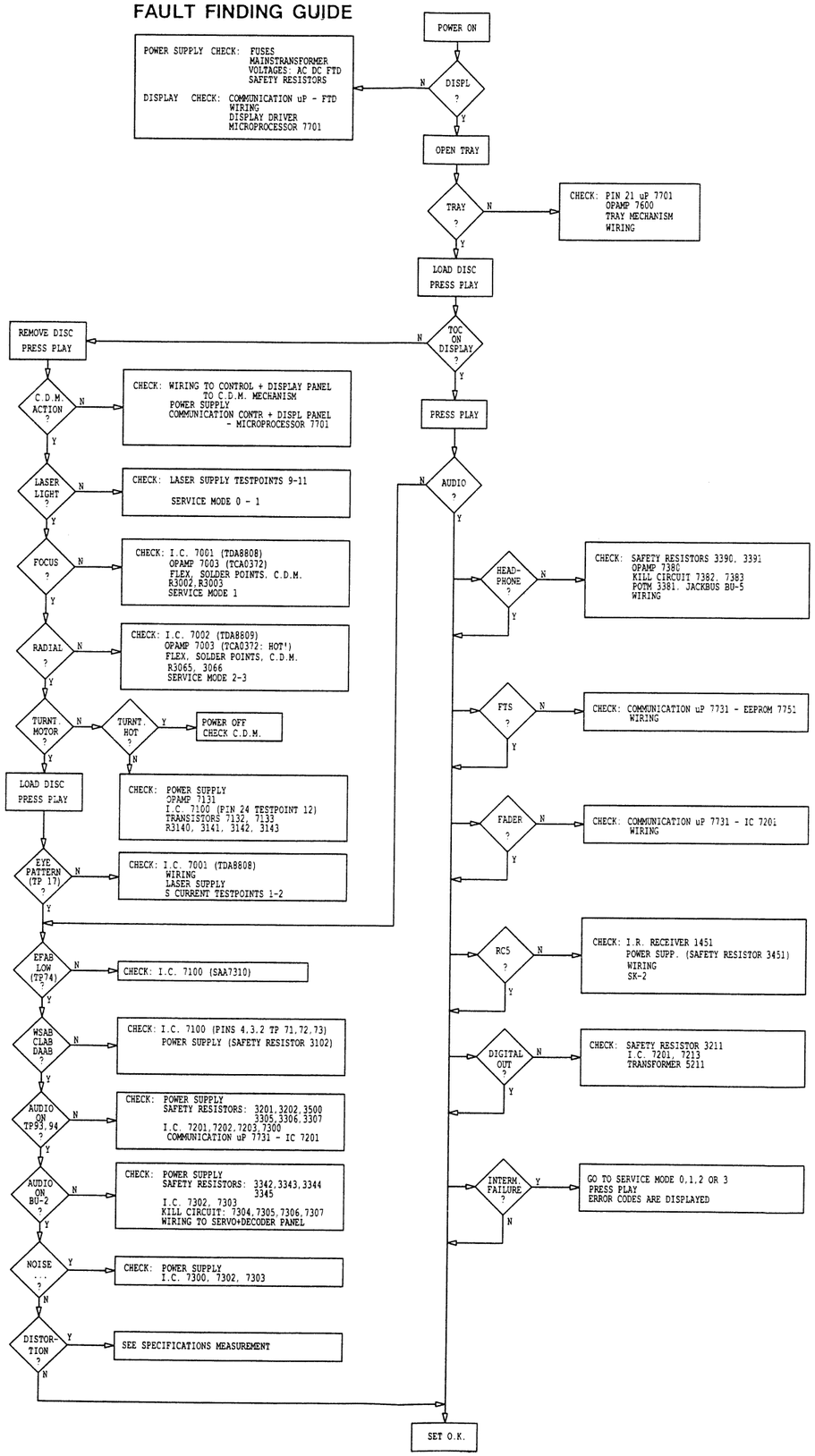


START UP PROCEDURE

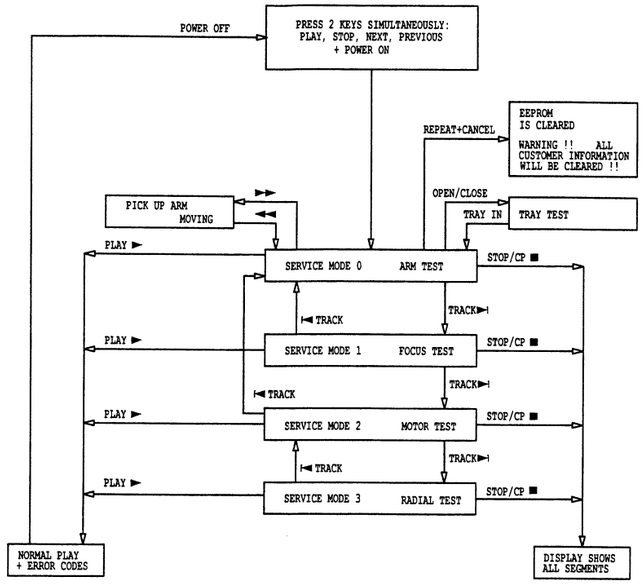


MDA.02340
T07–941

FAULT FINDING GUIDE



SERVICE TEST PROGRAM



HAS1020
9143

ERROR CODE TABLE

SYSTEM ERRORS

ER02	Focus error
ER03	Radial error
ER04	Too many TL
ER05	TL low to long
ER06	Jump error
ER07	Subcode error
ER08	TOC error
ER60	EEPROM error during initialisation
ER61	EEPROM error during read or write
ER67	No or bad communication between SERVO and USER μP

CHECK OF THE PHOTODIODES

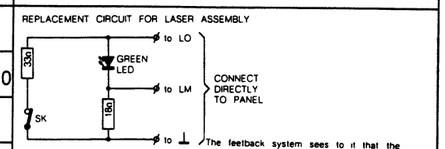
Step	Signal	Mode	◇	⌀	▭	⎍	Remarks
1	D2 D1 D3 D4	power on	4 6 7 8	–	–	signal 4Ξ6Ξ7Ξ8	Signal depends on Distance lens ⟷ IR LED of remote control

T-23366A

CHECK OF LASER SUPPLY

The laser, the lasersupply plus the monitor diode form a feedback system.
A defect in the lasersupply may result in the destruction of the laser. If, in that case, the laser is replaced, (= complete C.D.M.-unit) the new laser will also become defective. However, it is impossible to check and repair a feedback system if a link is missing. For this reason the laser supply can be checked with teh replacement circuit for laser assembly.

Step	Signal	Mode	◇	▭	Remarks
1	LO	serv. pos. 2 SK	9 (V)	1.8<V <2.3	REPLACEMENT CIRCUIT FOR LASER ASSEMBLY
	LM		11 (V)	170<mV <220	
2	LO	serv. pos. 2 SK	9 (V)	1.8<V <2.3	
	LM		11 (V)	170<mV <220	
3	LO	Power on	9 (V)	0V ± 0.2V	No light



After opening SK, the led will emit more light for a short moment.

T-23366B

CHECK OF CDM-9

Step	Signal	Mode	◇	⌐V¬
1	S current = voltage across R3000	Test disc 5A play	1 (V) 2 mV DC	56<mV<76

WARNINGS

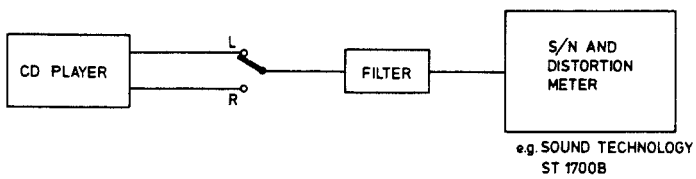
1. Never disconnect flex when power is on.
2. Laser power is adjusted during the production process and may not be readjusted.

SPECIFICATIONS MEASUREMENT

Signal	Mode	◇			Remarks
BU2-L	Test disc 3, play, total harmonic distorsion	filter output	See technial data		See drawing 30459A12
BU2-R	Test disc 3, play, total harmonic distorsion	filter output	See technial data		See drawing 30459A12
BU2-L	Test disc 3, play signal-to-noise ratio	filter output	See technial data		See drawing 30459A12
BU2-R	Test disc 3, play signal-to-noise ratio	filter output	See technial data		See drawing 30459A12

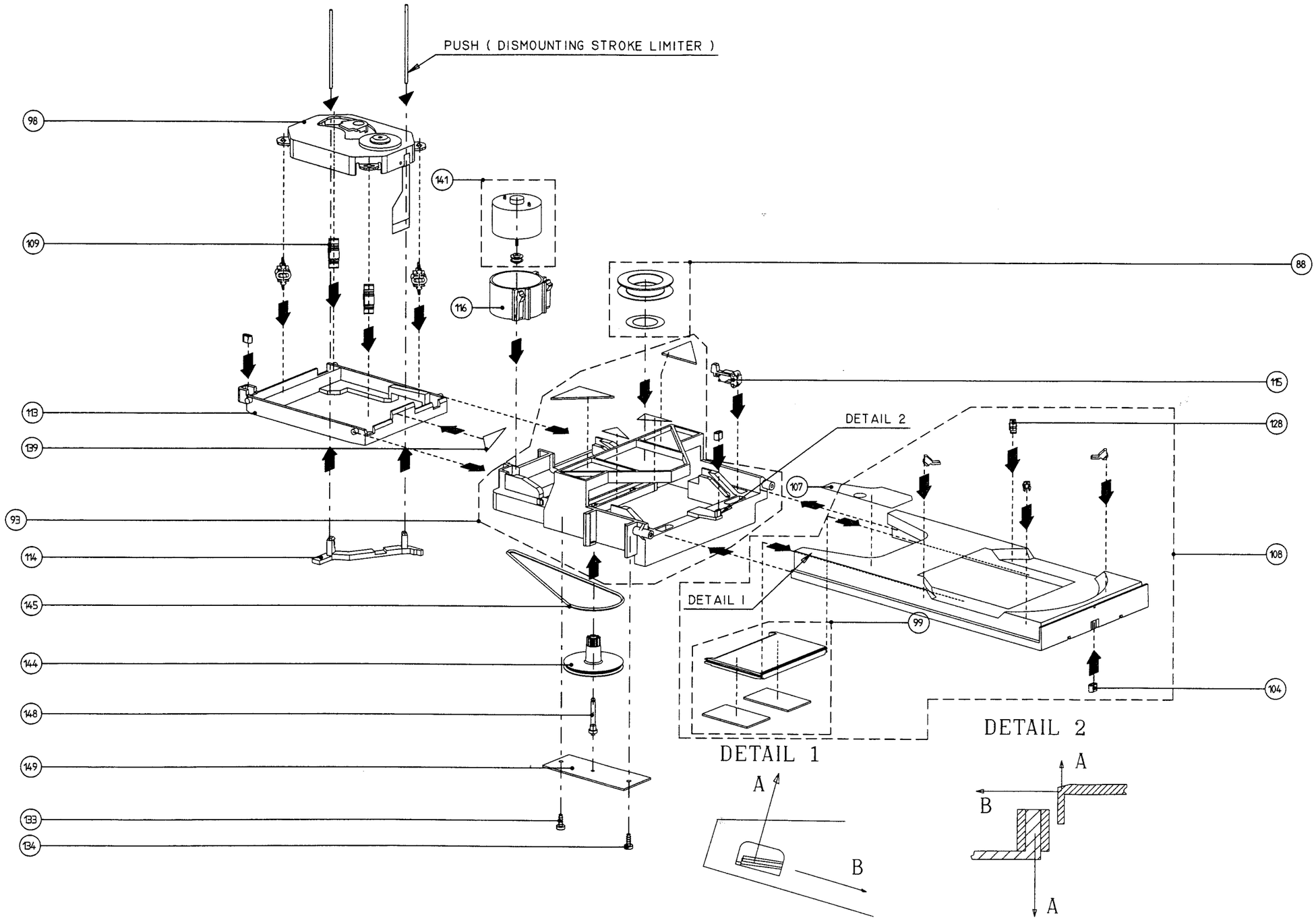
T-23366M

Filter = 13th order filter 4822 395 30204



30 459 A12

LOADER



HAS.1042

MECHANICAL PARTSLIST

Cabinet

2	4822 444 40537	FRONT
15	4822 410 61885	KNOBUNIT(NOSE)
16	4822 410 61704	KNOBUNIT(10-KEY)
17	4822 410 61884	KNOBUNIT(SETIN PART)
18	4822 410 61884	KNOBUNIT(SETIN PART)
23	4822 450 61831	IR WINDOW
51	4822 450 61877	WINDOW
52	4822 535 93283	POWERROD
53	4822 410 61705	KNOB
54	4822 462 71808	CAP
60	4822 444 60815	COVER PLATE
71	4822 444 40538	TRAY FRONT
151	4822 444 60837	COVER
251	4822 462 41888	FOOT
255	4822 462 41887	FELT
283	4822 532 60948	BUSHING
300	4822 321 10791	MAINS CORD /00S
301	4822 321 10823	MAINS CORD /05S
303	4822 321 10828	MAINS CORD /10S
308	4822 321 22832	AUDIO CORD SBC1072
314	4822 321 61452	DIGITAL OUT CORD
340	4822 736 21397	INSTRUCTION FOR USE
365	4822 218 10452	REMOTE CONTROL RD6901/00

Loader

88	4822 402 61406	CLAMPING PIECE
93	4822 464 50886	FRAME
98	4822 691 30275	CDM-9
99	4822 444 60808	COVER PLATE
104	4822 325 60379	DAMPING GROMMET
108	4822 444 30441	TRAY
109	4822 466 93065	SUSPENSION
113	4822 464 50884	CHASSIS
114	4822 466 93066	STROKE LIMITER
115	4822 276 13222	SWITCH
116	4822 464 50885	MOTOR FRAME
128	4822 460 20801	ORNAMENTAL PROFILE
141	4822 361 21423	MOTOR
144	4822 522 33192	GEAR WHEEL
145	4822 358 10115	BELT

The following parts are only available during production period on special request.

181	Frame
189,190	Support bracket
266	Back plate

SCREWS

Taptite M3x6: 6,7,8
83
211,212

Taptite M3x10: 171,172,173,174
175,176
200,201
204,205,206,207,208
259,260,261,262
269,270,271

Taptite M3x15: 202,203

Plastite M3x10: 34,35
36,37,38,39,40
41,42
209,210
268
272
273

Plastite M3x16: 30,31,32,33
43

EXPLODED VIEW

CONTROL AND DISPLAY PANEL

KEYBOARD PANEL

HEADPHONE PANEL

BU-5

MAINS PANEL

SERVO-DECODER PANEL

SK 1

SK 2

BU-3

BU-2

BU-4

/00-/01

/07-/17-/34

/10

* ONLY /01-VERSION

HAS.1039
WK 210

MAIN PANEL

MISCELLANEOUS

	4822 492 63076	CLAMPING SPRING
BU-2	4822 267 31456	ANALOG OUT SOCKET
BU-3	4822 267 31455	ESI IN/OUT SOCKET
BU-4	4822 267 31457	DIGITAL OUT SOCKET
SK-2	4822 276 12339	SWITCH ESI ON/OFF
1101	4822 265 30525	RFK5 CONNECTOR
1302	4822 267 40624	RFK5 CONNECTOR
1702	4822 267 50723	CONNECTOR 13P

CRYSTAL

1300	4822 242 71349	CRYSTAL 11,2896 MHz
1700	4822 242 72527	RESONATOR 4 MHz
1731	4822 242 72527	RESONATOR 4 MHz

CAPACITORS

2000	4822 122 33809	22nF 20% 50V
2001	5322 122 32268	470pF 10% 50V
2003	4822 122 33809	22nF 20% 50V
2006	4822 122 33809	22nF 20% 50V
2007	4822 122 33175	2,2nF 20% 50V
2008	4822 122 32542	47nF 10% 63V
2009	5322 122 32531	100pF 5% 50V
2010	4822 122 33177	10nF 20% 50V
2011	5322 122 34123	1nF 10% 50V
2012	4822 121 42408	220nF 5% 63V
2013	4822 121 51252	470nF 5% 63V
2015	5322 122 34123	1nF 10% 50V
2021	4822 121 51321	8,2µF 1% 63V
2022	4822 121 51321	8,2µF 1% 63V
2023	4822 124 40433	47µF 20% 25V
2025	5322 121 42661	330nF 5% 63V
2026	4822 122 33342	33nF 10% 63V
2027	4822 122 33342	33nF 10% 63V
2028	4822 121 42408	220nF 5% 63V
2029	4822 121 42408	220nF 5% 63V
2041	4822 121 51252	470nF 5% 63V
2042	5322 126 10223	4,7nF 10% 63V
2043	4822 121 42408	220nF 5% 63V
2044	4822 122 33496	100nF 10% 63V
2061	4822 121 51252	470nF 5% 63V
2062	4822 122 33496	100nF 10% 63V
2063	4822 122 33809	22nF 20% 50V
2081	4822 122 32575	220pF 10% 500V
2082	4822 124 40433	47µF 20% 25V
2091	4822 121 43526	47nF 5% 100V
2100	5322 122 32452	47pF 5% 50V
2101	4822 122 33175	2,2nF 20% 50V
2102	4822 122 33809	22nF 20% 50V
2103	4822 124 40272	33µF 20% 16V
2104	4822 122 33809	22nF 20% 50V
2105	4822 121 51252	470nF 5% 63V
2107	4822 124 41576	2,2µF 20% 50V
2108	4822 124 40272	33µF 20% 16V
2109	4822 122 33809	22nF 20% 50V
2131	4822 122 33893	18nF 10% 63V
2132	5322 121 42661	330nF 5% 63V
2133	4822 122 33175	2,2nF 20% 50V
2134	4822 122 33809	22nF 20% 50V
2135	4822 124 40196	220µF 20% 16V
2136	4822 122 33809	22nF 20% 50V
2137	4822 124 40196	220µF 20% 16V
2201	4822 122 33809	22nF 20% 50V
2202	4822 124 40272	33µF 20% 16V
2203	4822 122 33809	22nF 20% 50V
2204	4822 122 33809	22nF 20% 50V
2205	4822 124 40272	33µF 20% 16V
2206	5322 122 31863	330pF 5% 50V
2207	5322 122 32658	22pF 5% 50V
2208	4822 122 33809	22nF 20% 50V
2210	5322 121 42386	100nF 5% 63V
2211	4822 124 40272	33µF 20% 16V
2212	4822 122 33809	22nF 20% 50V
2214	4822 122 33809	22nF 20% 50V
2215	4822 122 33809	22nF 20% 50V
2216	4822 124 40272	33µF 20% 16V
2300	4822 124 40272	33µF 20% 16V
2301	4822 122 33496	100nF 10% 63V
2302	5322 122 32661	56nF 10% 63V
2303	5322 122 32452	47pF 5% 50V
2304	5322 122 32452	47pF 5% 50V
2305	5322 122 32452	47pF 5% 50V
2306	4822 122 33496	100nF 10% 63V
2307	4822 122 33496	100nF 10% 63V
2308	4822 124 40433	47µF 20% 25V
2309	4822 124 40433	47µF 20% 25V
2310	4822 124 40433	47µF 20% 25V
2311	4822 124 40433	47µF 20% 25V
2312	4822 122 33496	100nF 10% 63V
2313	4822 122 33496	100nF 10% 63V
2314	4822 124 40272	33µF 20% 16V
2315	4822 124 40272	33µF 20% 16V
2316	4822 122 33496	100nF 10% 63V
2317	4822 122 33496	100nF 10% 63V
2318	4822 122 33496	100nF 10% 63V
2319	4822 122 33496	100nF 10% 63V
2320	4822 124 40272	33µF 20% 16V
2321	4822 124 40272	33µF 20% 16V
2322	5322 122 32658	22pF 5% 50V
2323	5322 122 32658	22pF 5% 50V

2324	5322 122 32658	22pF 5% 50V
2325	5322 122 32658	22pF 5% 50V
2326	5322 122 32268	470pF 10% 50V
2327	5322 122 32268	470pF 10% 50V
2328	5322 122 32268	470pF 10% 50V
2329	5322 122 32268	470pF 10% 50V
2330	4822 121 70074	180pF 1% 400V
2331	4822 121 70074	180pF 1% 400V
2332	4822 121 70074	180pF 1% 400V
2333	4822 121 70074	180pF 1% 400V
2334	4822 121 50591	1nF 1% 630V
2335	4822 121 50591	1nF 1% 630V
2336	4822 121 51288	100pF 630V
2337	4822 121 51288	100pF 630V
2338	4822 124 22339	100µF 16V
2339	4822 124 22339	100µF 16V
2342	4822 122 33496	100nF 10% 63V
2343	4822 122 33496	100nF 10% 63V
2346	4822 122 33496	100nF 10% 63V
2347	4822 122 33496	100nF 10% 63V
2501	4822 126 10454	3,3nF 20% 400V
2511	4822 122 33809	22nF 20% 50V
2512	4822 122 33809	22nF 20% 50V
2513	4822 122 33809	22nF 20% 50V
2514	4822 122 33809	22nF 20% 50V
2520	4822 124 23183	4700µF 20% 16V
2521	4822 122 33809	22nF 20% 50V
2522	4822 122 33809	22nF 20% 50V
2523	4822 124 41576	2,2µF 20% 50V
2525	4822 124 23268	3300µF 20% 16V
2526	4822 122 33809	22nF 20% 50V
2527	4822 122 33809	22nF 20% 50V
2528	4822 124 41577	4,7µF 20% 50V
2542	4822 122 33809	22nF 20% 50V
2543	4822 122 33809	22nF 20% 50V
2544	4822 124 23172	470µF 20% 50V
2545	4822 122 33809	22nF 20% 50V
2546	4822 122 33809	22nF 20% 50V
2547	4822 122 33809	22nF 20% 50V
2548	4822 124 41577	4,7µF 20% 50V
2549	4822 122 33809	22nF 20% 50V
2561	4822 121 51252	470nF 5% 63V
2562	5322 121 42661	330nF 5% 63V
2563	4822 124 40849	330µF 20% 16V
2600	4822 122 33496	100nF 10% 63V
2601	4822 124 40272	33µF 20% 16V
2602	4822 122 33809	22nF 20% 50V
2603	4822 124 40272	33µF 20% 16V
2604	4822 122 33809	22nF 20% 50V
2605	4822 122 33496	100nF 10% 63V
2704	4822 122 33809	22nF 20% 50V
2705	4822 124 41576	2,2µF 20% 50V
2706	4822 122 33809	22nF 20% 50V
2707	4822 122 33809	22nF 20% 50V
2708	4822 124 40272	33µF 20% 16V
2733	4822 122 33809	22nF 20% 50V
2751	4822 122 33809	22nF 20% 50V
2761	4822 124 40433	47µF 20% 25V
2762	4822 122 33809	22nF 20% 50V

RESISTORS

3000	4822 050 24702	4k7 1% 0,6W
3001	4822 051 20104	100k 5% 0,1W
3002	4822 052 10478	4Ω7 5% 0,33W
3003	4822 052 10478	4Ω7 5% 0,33W
3004	4822 050 21503	15k 1% 0,6W
3005	4822 051 20101	100Ω 5% 0,1W
3006	4822 051 10102	1k 2% 0,25W
3007	4822 050 22403	24k 1% 0,6W
3008	4822 050 25602	5k6 1% 0,6W
3009	4822 050 21003	10k 1% 0,6W
3025	4822 050 24703	47k 1% 0,6W
3026	4822 050 22203	22k 1% 0,6W
3029	4822 050 25102	5k1 1% 0,6W
3030	4822 050 22204	220k 1% 0,6W
3031	4822 050 21203	12k 1% 0,6W
3032	4822 050 21504	150k 1% 0,6W
3033	4822 050 22203	22k 1% 0,6W
3041	4822 050 21103	11k 1% 0,6W
3042	4822 050 21504	150k 1% 0,6W
3043	4822 050 21204	120k 1% 0,6W
3044	4822 116 52234	100k 5% 0,5W
3045	4822 050 23904	390k 1% 0,6W
3046	4822 050 25603	56k 1% 0,6W
3047	4822 111 30846	6Ω8 5% 0,25W
3048	4822 052 10229	22Ω 5% 0,33W
3049	4822 050 23305	3M3 1% 0,6W
3061	4822 050 23302	3k3 1% 0,6W
3062	4822 050 23002	3k 1% 0,6W
3063	4822 050 23308	3Ω3 1% 0,6W
3064	4822 052 10339	33Ω 5% 0,33W
3065	4822 052 10108	1Ω 5% 0,33W
3066	4822 052 10108	1Ω 5% 0,33W
3071	4822 050 22203	22k 1% 0,6W
3072	4822 050 22203	22k 1% 0,6W
3075	4822 050 21003	10k 1% 0,6W
3081	4822 052 10189	18Ω 5% 0,33W
3082	4822 052 10129	12Ω 5% 0,33W
3083	4822 051 10101	100Ω 2% 0,25W
3092	4822 050 21802	1k8 1% 0,6W
3094	4822 050 21803	18k 1% 0,6W
3100	4822 050 22202	2k2 1% 0,6W
3101	4822 050 22203	22k 1% 0,6W
3102	4822 111 30846	6Ω8 5% 0,25W
3105	4822 050 27509	75Ω 1% 0,6W

3106	4822 050 23902	3k9 1% 0,6W
3107	4822 050 29102	9k1 1% 0,6W
3108	4822 050 21602	1k6 1% 0,6W
3109	4822 111 30846	6Ω8 5% 0,25W
3131	4822 050 24702	4k7 1% 0,6W
3132	4822 050 24703	47k 1% 0,6W
3133	4822 116 52234	100k 5% 0,5W
3134	4822 050 29103	91k 1% 0,6W
3135	4822 050 23302	3k3 1% 0,6W
3136	4822 050 15602	5k6 1% 0,4W
3137	4822 050 21504	150k 1% 0,6W
3138	4822 050 28203	82k 1% 0,6W
3139	4822 051 10101	100Ω 2% 0,25W
3140	4822 052 10478	4Ω7 5% 0,33W
3141	4822 052 10478	4Ω7 5% 0,33W
3142	4822 052 10478	4Ω7 5% 0,33W
3143	4822 052 10478	4Ω7 5% 0,33W
3144	4822 050 26804	680k 1% 0,6W
3145	4822 050 15602	5k6 1% 0,4W
3146	4822 050 13303	33k 1% 0,4W
3147	4822 050 24702	4k7 1% 0,6W
3148	4822 050 24702	4k7 1% 0,6W
3149	4822 051 10122	1k2 2% 0,25W
3150	4822 050 22004	200k 1% 0,6W
3201	4822 111 30846	6Ω8 5% 0,25W
3202	4822 111 30846	6Ω8 5% 0,25W
3211	4822 111 30846	6Ω8 5% 0,25W
3212	4822 051 10561	560Ω 2% 0,25W
3213	4822 050 26201	620Ω 1% 0,6W
3214	4822 050 22203	22k 1% 0,6W
3215	4822 050 22203	22k 1% 0,6W
3216	4822 050 22203	22k 1% 0,6W
3219	4822 111 30846	6Ω8 5% 0,25W
3221	4822 050 22203	22k 5% 1/8W
3300	4822 111 30846	6Ω8 5% 0,25W
3301	4822 050 22204	220k 1% 0,6W
3302	4822 050 21002	1k 1% 0,6W
3303	4822 051 10101	100Ω 2% 0,25W
3304	4822 111 30846	6Ω8 5% 0,25W
3305	4822 111 30846	6Ω8 5% 0,25W
3306	4822 052 10101	100Ω 5% 0,33W
3307	4822 052 10101	100Ω 5% 0,33W
3308	4822 050 22403	24k 1% 0,6W
3309	4822 051 20101	100Ω 5% 0,1W
3310	4822 050 25103	51k 1% 0,6W
3311	4822 050 25103	51k 1% 0,6W
3312	4822 050 25103	51k 1% 0,6W
3313	4822 050 25103	51k 1% 0,6W
3314	4822 050 21003	10k 1% 0,6W
3315	4822 050 21003	10k 1% 0,6W
3316	4822 050 21003	10k 1% 0,6W
3317	4822 050 21003	10k 1% 0,6W
3318	4822 050 21003	10k 1% 0,6W
3319	4822 050 21003	10k 1% 0,6W
3320	4822 050 21003	10k 1% 0,6W
3321	4822 050 21003	10k 1% 0,6W
3322	4822 050 25602	5k6 1% 0,6W
3323	4822 050 25602	5k6 1% 0,6W
3326	4822 050 27502	7k5 1% 0,6W
3327	4822 050 27502	7k5 1% 0,6W
3328	4822 050 25602	5k6 1% 0,6W
3329	4822 050 25602	5k6 1% 0,6W
3330	4822 050 21003	10k 1% 0,6W
3331	4822 050 21003	10k 1% 0,6W
3332	4822 050 21003	10k 1% 0,6W
3333	4822 050 21003	10k 1% 0,6W
3334	4822 051 10101	100Ω 2% 0,25W
3335	4822 051 10101	100Ω 2% 0,25W
3336	4822 051 10101	100Ω 2% 0,25W
3337	4822 051 10101	100Ω 2% 0,25W
3338	4822 050 22202	2k2 1% 0,6W
3339	4822 050 22202	2k2 1% 0,6W
3340	4822 050 22202	2k2 1% 0,6W
3341	4822 050 22202	2k2 1% 0,6W
3342	4822 052 10109	10Ω 5% 0,33W
3343	4822 052 10109	10Ω 5% 0,33W
3344	4822 052 10109	10Ω 5% 0,33W
3345	4822 052 10109	10Ω 5% 0,33W
3348	4822 050 21003	10k 1% 0,6W
3349	4822 050 21003	10k 1% 0,6W
3350	4822 051 20472	4k7 5% 0,1W
3351	4822 050 24702	4k7 1% 0,6W
3352	4822 051 10008	0Ω 5% 0,25W
3354	4822 050 22204	220k 1% 0,6W
3355	4822 050 22204	220k 1% 0,6W
3392	4822 051 10101	100Ω 2% 0,25W
3393	4822 051 10101	100Ω 2% 0,25W
3394	4822 050 22202	2k2 1% 0,6W
3395	4822 051 20222	2k2 5% 0,1W
3520	4822 050 26801	680Ω 1% 0,6W
3521	4822 050 26801	680Ω 1% 0,6W
3522	4822 050 26801	680Ω 1% 0,6W
3523	4822 050 26801	680Ω 1% 0,6W
3524	4822 050 26801	680Ω 1% 0,6W
3525	4822 050 23302	3k3 1% 0,6W
3526	4822 051 10101	100Ω 2% 0,25W
3527	4822 050 24703	47k 1% 0,6W
3528	4822 050 22203	22k 1% 0,6W
3529	4822 050 21003	10k 1% 0,6W
3541	4822 050 24702	4k7 1% 0,6W
3541	4822 050 23302	3k3 1% 0,6W
3541	4822 050 23302	3k3 1% 0,6W
3561	4822 116 52224	470Ω 5% 0,5W
3562	4822 050 24703	47k 1% 0,6W
3563	4822 050 22205	2M2 1% 0,6W
3564	4822 050 21003	10k 1% 0,6W

3565	4822 050 13303	33k 1% 0,4W
3566	4822 050 22204	220k 1% 0,6W
3567	4822 050 21002	1k 1% 0,6W
3600	4822 050 25102	5k1 1% 0,6W
3602	4822 050 21003	10k 1% 0,6W
3603	4822 050 21003	10k 1% 0,6W
3604	4822 050 21003	10k 1% 0,6W
3605	4822 050 21003	10k 1% 0,6W
3606	4822 052 10108	1Ω 5% 0,33W
3607	4822 052 10108	1Ω 5% 0,33W
3608	4822 052 10229	22Ω 5% 0,33W
3701	4822 050 22204	220k 1% 0,6W
3702	4822 052 10478	4Ω7 5% 0,33W
3703	4822 050 22203	22k 1% 0,6W
3705	4822 050 22203	22k 1% 0,6W
3708	4822 050 22203	22k 1% 0,6W
3709	4822 050 22203	22k 1% 0,6W
3710	4822 050 22203	22k 1% 0,6W
3721	4822 050 22201	220Ω 1% 0,6W
3722	4822 050 21002	1k 1% 0,6W
3723	4822 050 22203	22k 1% 0,6W
3731	4822 050 22204	220k 1% 0,6W
3733	4822 050 22203	22k 1% 0,6W
3735	4822 050 22203	22k 1% 0,6W
3736	4822 050 22203	22k 1% 0,6W
3741	4822 050 22203	22k 1% 0,6W
3742	4822 050 22203	22k 1% 0,6W
3743	4822 050 22203	22k 1% 0,6W
3744	4822 050 22203	22k 1% 0,6W
3745	4822 050 22203	22k 1% 0,6W
3746	4822 050 22203	22k 1% 0,6W
3747	4822 050 22203	22k 1% 0,6W
3748	4822 050 22203	22k 1% 0,6W
3751	4822 050 21003	10k 1% 0,6W
3752	4822 050 21003	10k 1% 0,6W
3762	4822 050 21803	18k 1% 0,6W
3763	4822 050 24703	47k 1% 0,6W
3764	4822 051 10101	100Ω 2% 0,25W
3765	4822 050 24703	47k 1% 0,6W
3766	4822 050 24703	47k 1% 0,6W
3767	4822 050 24703	47k 1% 0,6W
3768	4822 050 24703	47k 1% 0,6W
4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4004	4822 051 10008	0Ω 5% 0,25W
4005	4822 051 10008	0Ω 5% 0,25W
4006	4822 051 10008	0Ω 5% 0,25W
4007	4822 051 10008	0Ω 5% 0,25W
4008	4822 051 10008	0Ω 5% 0,25W
4009	4822 051 10008	0Ω 5% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4013	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4016	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4022	4822 051 10008	0Ω 5% 0,25W
4023	4822 051 10008	0Ω 5% 0,25W
4024	4822 051 10008	0Ω 5% 0,25W
4026	4822 051 10008	0Ω 5% 0,25W
4027	4822 051 10008	0Ω 5% 0,25W
4030	4822 051 10008	0Ω 5% 0,25W
4031	4822 051 10008	0Ω 5% 0,25W
4032	4822 051 10008	0Ω 5% 0,25W
4034	4822 051 10008	0Ω 5% 0,25W
4036	4822 051 10008	0Ω 5% 0,25W
4037	4822 051 10008	0Ω 5% 0,25W
4039	4822 051 10008	0Ω 5% 0,25W
4043	4822 051 10008	0Ω 5% 0,25W
4044	4822 051 10008	0Ω 5% 0,25W
4045	4822 051 10008	0Ω 5% 0,25W
4046	4822 051 10008	0Ω 5% 0,25W
4047	4822 051 10008	0Ω 5% 0,25W
4050	4822 051 10008	0Ω 5% 0,25W
4051	4822 051 10008	0Ω 5% 0,25W
4053	4822 051 10008	0Ω 5% 0,25W
4056	4822 051 10008	0Ω 5% 0,25W
4057	4822 051 10008	0Ω 5% 0,25W
4058	4822 051 10008	0Ω 5% 0,25W
4060	4822 051 10008	0Ω 5% 0,25W
4061	4822 051 10008	0Ω 5% 0,25W
4062	4822 051 10008	0Ω 5% 0,25W
4066	4822 051 10008	0Ω 5% 0,25W
4067	4822 051 10008	0Ω 5% 0,25W
4071	4822 051 10008	0Ω 5% 0,25W
4081	4822 051 10008	0Ω 5% 0,25W
4085	4822 051 10008	0Ω 5% 0,25W
4086	4822 051 10008	0Ω 5% 0,25W

COILS

5211	4822 148 80281	DIG.OUT TRANSFORMER
5300	4822 157 51192	220µH
5301	4822 157 51192	220µH
5302	4822 157 51235	4,7µH

DIODES

6061	4822 130 30861	BZX79-C7V5
6062	4822 130 30861	BZX79-C7V5
6201	4822 130 30621	1N4148
6300	4822 130 30621	1N4148
6301	4822 130 30621	1N4148
6511	5322 130 30684	1N4002
6512	5322 130 30684	1N4002
6513	5322 130 30684	1N4002
6514	5322 130 30684	1N4002
6520	4822 130 30621	1N4148
6521	4822 130 30621	1N4148
6522	4822 130 30621	1N4148
6541	5322 130 30684	1N4002
6543	4822 130 31981	BZX79-C3V9
6544	4822 130 34173	BZX79-C5V6
6561	4822 130 34278	BZX79-F6V8
6562	4822 130 30621	1N4148
6563	4822 130 30621	1N4148
6564	4822 130 30621	1N4148
6565	5322 130 30684	1N4002
6566	5322 130 30684	1N4002
6567	4822 130 31981	BZX79-C3V9
6721	4822 130 80235	BZX79-C3V3

TRANSISTORS & IC's

7001	4822 209 73234	TDA8808T/C3
7002	4822 209 73235	TDA8809T/C2
7003	4822 209 72587	TCA0372DP2-
7004	5322 130 44349	BC635
7100	4822 209 61759	SAA7310GP/H5
7101	4822 130 42131	BF550
7102	4822 209 70422	MN4264-15
7131	4822 209 83274	NJM4560D
7132	4822 130 44121	BC338
7133	4822 130 44104	BC328
7134	5322 130 42012	BC858A
7135	5322 130 42012	BC858A
7201	4822 209 30939	SM5840AS
7202	5322 209 12099	MC74HC164D
7203	5322 209 12099	MC74HC164D
7204	4822 209 30739	MC74HC04AD
7211	4822 209 62588	PCF3523P
7212	4822 130 61207	BC848
7213	4822 209 31284	MC74HC08AD
7300	4822 209 31086	SAA7350
7302	4822 209 83163	LM833N
7303	4822 209 83163	LM833N
7304	4822 130 42696	BC818-25
7305	4822 130 42696	BC818-25
7306	4822 130 42696	BC818-25
7307	4822 130 42696	BC818-25
7310	5322 130 42012	BC858
7311	5322 130 42012	BC858
7382	4822 130 42696	BC818-25
7383	4822 130 42696	BC818-25
7520	4822 130 60492	BC376
7521	4822 209 80891	MC78M05CT
7522	4822 209 73233	MC79L05ACP
7525	5322 130 41982	BC848B
7526	5322 130 41982	BC848B
7527	5322 130 41982	BC848B
7541	4822 209 31257	MC79L24ACP
7561	5322 130 41982	BC848B
7562	5322 130 42012	BC858
7600	4822 209 62059	TCA0372DP1
7701	4822 209 30938	MC68HC05C8P/ZC405027
7702	4822 209 72042	MC78L05ACP
7721	5322 130 42012	BC858
7731	4822 209 31249	MC68HC05D24P/ZC410915
7732	5322 130 42012	BC858
7751	4822 209 62524	X24C16P
7761	5322 130 42012	BC858
7762	4822 130 61207	BC848
7763	4822 130 40938	BC548

DISPLAY PANEL

MISCELLANEOUS

	4822 256 91898	DISPLAY HOLDER
1402	4822 130 91103	DISPLAY
1403	4822 267 50723	CONNECTOR 13P
1404	4822 267 50721	CONNECTOR 9P
1410	4822 276 13114	TACT SWITCH
1411	4822 276 13114	TACT SWITCH
1412	4822 276 13114	TACT SWITCH
1413	4822 276 13114	TACT SWITCH
1414	4822 276 13114	TACT SWITCH
1415	4822 276 13114	TACT SWITCH
1416	4822 276 13114	TACT SWITCH
1417	4822 276 13114	TACT SWITCH
1418	4822 276 13114	TACT SWITCH
1419	4822 276 13114	TACT SWITCH
1420	4822 276 13114	TACT SWITCH
1421	4822 276 13114	TACT SWITCH
1422	4822 276 13114	TACT SWITCH
1423	4822 276 13114	TACT SWITCH
1424	4822 276 13114	TACT SWITCH
1425	4822 276 13114	TACT SWITCH
1451	4822 214 51772	IR RECEIVER

CAPACITORS

2401	4822 122 10166	22nF 30% 16V
2403	5322 124 21643	22µF 20% 40V
2404	4822 122 10177	10nF 20% 25V
2405	5322 124 21643	22µF 20% 40V
2406	4822 122 10177	10nF 20% 25V
2451	5322 124 21643	22µF 20% 40V
2452	4822 122 10166	22nF 30% 16V

RESISTORS

3401	4822 052 10478	4Ω7 5% 0,33W
3402	4822 116 52235	1M 5% 0,5W
3403	4822 050 24703	47k 1% 0,6W
3404	4822 050 22203	22k 1% 0,6W
3405	4822 050 21002	1k 1% 0,6W
3406	4822 050 22203	22k 1% 0,6W
3407	4822 050 22203	22k 1% 0,6W
3408	4822 050 22203	22k 1% 0,6W
3409	4822 050 22203	22k 1% 0,6W
3410	4822 050 22203	22k 1% 0,6W
3411	4822 052 10478	4Ω7 5% 0,33W
3425	5322 111 90473	8x10k 2% NETWORK
3426	5322 111 90473	8x10k 2% NETWORK
3451	4822 052 10478	4Ω7 5% 0,33W
3452	4822 050 24702	4k7 1% 0,6W

DIODES

6401	4822 130 30621	1N4148
6402	4822 130 30621	1N4148
6403	4822 130 30621	1N4148
6404	4822 130 30621	1N4148

TRANSISTORS & IC'S

7401	4822 209 31251	TMP47C670N-V714
7403	4822 209 60886	UDN-2580A
7404	4822 209 60886	UDN-2580A

KEYBOARD PANEL

MISCELLANEOUS

1405	4822 267 50721	CONNECTOR 9P
1426	4822 276 13114	TACT SWITCH
1427	4822 276 13114	TACT SWITCH
1428	4822 276 13114	TACT SWITCH
1429	4822 276 13114	TACT SWITCH
1430	4822 276 13114	TACT SWITCH
1431	4822 276 13213	TACT SWITCH
1432	4822 276 13213	TACT SWITCH
1433	4822 276 13213	TACT SWITCH
1434	4822 276 13213	TACT SWITCH
1435	4822 276 13213	TACT SWITCH
1436	4822 276 13213	TACT SWITCH
1437	4822 276 13213	TACT SWITCH
1438	4822 276 13114	TACT SWITCH
1439	4822 276 13114	TACT SWITCH
1440	4822 276 13114	TACT SWITCH
1441	4822 276 13114	TACT SWITCH
1442	4822 276 13114	TACT SWITCH

DIODES

6405	4822 130 30621	1N4148
6406	4822 130 30621	1N4148
6407	4822 130 30621	1N4148
6408	4822 130 30621	1N4148
6409	4822 130 30621	1N4148

HEADPHONE PANEL

MISCELLANEOUS

BU-5	4822 267 31453	HEADPHONE SOCKET
1310	4822 267 40624	RFK5 CONNECTOR

CAPACITORS

2382	4822 122 10166	22nF	30%	16V
2383	4822 122 10166	22nF	30%	16V

RESISTORS

3381	4822 102 10398	10k LOG POTMETER		
3382	4822 116 52244	15k	5%	0,5W
3383	4822 116 52244	15k	5%	0,5W
3384	4822 050 21003	10k	1%	0,6W
3385	4822 050 21003	10k	1%	0,6W
3386	4822 050 21201	120Ω	1%	0,6W
3387	4822 050 21201	120Ω	1%	0,6W
3388	4822 051 10101	100Ω	2%	0,25W
3389	4822 051 10101	100Ω	2%	0,25W
3390	4822 052 10228	2Ω2	5%	0,33W
3391	4822 052 10228	2Ω2	5%	0,33W

IC

7380	4822 209 82362	NJM4556D

MISCELLANEOUS

SK-1	4822 276 13216	MAINS SWITCH
21	4822 256 30274	FUSE HOLDER
1501	4822 070 31001	FUSE 100mA
5001	4822 146 31089	MAINS TRANSFORMER
5502	4822 214 51841	MAINS FILTER